



COSALT

SITUATIONS VACANT

OFFICE MANAGER

Berwick-upon-Tweed

The Anglo-Scottish Fish Producers' Organisation Limited is a body set up under E.E.C. legislation concerned with the primary marketing of fish and the production of statistical data.

The Headquarters are in Berwick-upon-Tweed and the Office Manager will be responsible for the supervision of a small office staff engaged in data collection and analysis in the first instance. Opportunities for expansion into other activities in the future are anticipated. The successful applicant for the position of Office Manager should be (1) familiar with the Fishing Industry; (2) experienced in accounting and statistical recording systems; (3) experienced in running a small office and the control of staff and (4) has the initiative, drive and flexibility to seek and implement other activities as opportunities allow.

Salary within the range of £6,000 to £8,500 per annum plus Company Car, pension scheme, 4 weeks holiday.

Enquiries and applications to the Chairman, Anglo-Scottish Fish Producers' Organisation Limited, 7 Bridge End, Berwick-upon-Tweed TD15 1HA. Interviews will be in Berwick-upon-Tweed.

DELIVERIES
EVES MARINE SERVICE for delivery of all vessels up to 500 tons. Telephone 0243 58 468.

FOR HIRE
4 to 20 man liferafts. Liferaft Hire Co., 14 Chapel Road, Tiptree, Colchester, Essex CO5 0HA. Tiptree 815549

WANTED

SHELL FISH AND EEL PROCESSORS

Fishermen go whelk fishing, there is a lot of money to be made from good quality whelks, if contracted we then guarantee to take the whole of your catch all year round at unbelievable prices.

Refrigerated transport always available.

F. R. BRADLEY (FELTHAM) LTD.
Telephone: Feltham 01-890 3100 or 4352 factory (8am-5pm)
Feltham 01-751 2500 evenings

WANTED
LIVE EELS
Regular supplies required.
Limited collection
BOX NO. 887

WANTED
1/4 ton hydraulic
which, cash paid, inspection made immediate. Telephone: 0306 68970.

PUBLIC NOTICE

Notice to Mariners
ROCK DUMPING ON SHELL EXPRO'S GASLINE
We are continuing to dump rock over the FLAG's gasline in the following areas:

DECCA MAINCHAIN 8C CO-ORDINATES
SECTION ALPHA

GREEN D 32.76 PURPLE H 02.28

GREEN D 32.88 PURPLE H 02.47

GREEN D 34.48 PURPLE H 01.05

GREEN D 34.67 PURPLE H 01.20

GREEN D 34.82 PURPLE H 01.30

GREEN D 34.93 PURPLE H 01.30

GREEN D 37.11 PURPLE H 02.28

This operation is being carried out by the barge "Franx" and will now

continue into February.

The vessel employed frequently lays to two anchors, the cables of which extend 300 metres up current from the vessel. A wide berth is requested.

Notice to Mariners
ROCK DUMPING ON SHELL EXPRO'S GASLINE

Work on the St. Fergus/Brent Gasline is due to resume on 10/6/78. The Rock Dumping vessel "FRANS" will be conducting a survey of the pipeline route from St. Fergus offshore to a position 871 3838 N 40.21W.

Chain 80 North Scottish. Green 28.3 (corrected). Purple 00.28 (corrected). Survey work should require two days after which rock dumping will commence for the next week.

The vessel "FRANS" frequently lays to two anchors, the cables of which extend 300 metres up-current from the vessel.

A wide berth is requested.

OUTLET for half ton minimum weekly common flounders. Telephone: Dundee 513688 or 815828.

WANTED Crab claws and winkles, boiler or olive. Live lobsters. Box No. 377.

WANTED hydraulic capstan. Telephone: 0306 68970.

WANTED 1/4 ton hydraulic which, cash paid, inspection made immediate. Telephone: 0306 68970.

Official and Classified ADVERTISEMENTS

Continued from Page 19

FISHING NEWS

WHEN ORDERING GOODS ADVERTISED IN OUR CLASSIFIED COLUMNS WE ASK OUR READERS NOT TO SEND MONEY IN ADVANCE BUT TO PAY CASH ON DELIVERY.

E. R. PURCHASE,
ADVERTISEMENT DIRECTOR

June 2, 1978

AIRCO
SYNTHETIC ROPE
Nylon 100%
AIREDALE ROPE CO LTD.
LEEDS 13
Tel. Pudsey 565665/6
Telex: 660497 Airco

ENGINES WANTED

WANTED MARINE

CATERPILLAR ENGINE
GOOD SECONDHAND RECONDITIONED ENGINE D43 BETWEEN SERIAL NUMBERS 33B678 to 33B3027.
SEND FULL DETAILS AND PRICE REQUIRED TO
ASTROFRONTERO

23 BROADFIELDS, HEADSTONE LANE,
HARROW, MIDDLESEX HA2 6NH

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GARDNER/KELVIN & ALL BRITISH MAKES OF MARINE DIESEL ENGINES

Required with or without stern gear.

PASSENGER ferry service, suit O.A.P. or person with winter occupation, £750, telephone Swindon 41686.

R. E. TREM & CO. LTD.
Bawtry Road, Finningley,
Near Doncaster, Yorkshire.
Tel: Doncaster 770203
Telex: 547239

MARINE engines wanted, all types. Also anchors and chains. Telephone: St. Fergus 307.

WANTED Gardner, Kelvin, other engines, marine or land. Immediate cash payment. Tait, 14 High Street, Fraserburgh, tel. 2282.

Ring Myra

01-383 6881
Telex: 21977

and dictate your
Classified Ad. for
next week's issue.

FOR SALE

SOUTHERN NETS LTD., RYE, SUSSEX



The "INCA" 600 series — Four Seam, High Lift. Combination Trawl. One of a fine range of trawls for Inshore Fishing. Designed especially for Cod, Bass, Whiting, Cuttlefish, Squid & Flatfish.

Ground rope	Length	Price from
8 fathom		£85
9 fathom		£148
10 fathom		£200
11 fathom		£285
12 fathom		£450
13 fathom		£625
14 fathom		£825
15 fathom		£1025

Available in two Bridle or three Bridle versions — single boat or pair operation.

The 200 Series — of Flatfish Trawls — Standard for Sole, Plaice, Skate, etc. — also available in a High Lift version for Flatfish & Roundfish — Single Boat — Two Bridle only.

Ground rope	Length	Standard	High Lift
201	5 fathom	£45	£85
202	6 fathom	£65	£125
203	7 fathom	£85	£150
204	8 fathom	£105	£175
205	10 fathom	£165	£285
206	11 fathom	£225	£385
207	12 fathom	£285	£485
208	13 fathom	£345	£585
209	14 fathom	£405	£685
210	15 fathom	£465	£785
211	16 fathom	£525	£885
212	17 fathom	£585	£985
213	18 fathom	£645	£1085
214	19 fathom	£705	£1185
215	20 fathom	£765	£1285
216	21 fathom	£825	£1385
217	22 fathom	£885	£1485
218	23 fathom	£945	£1585
219	24 fathom	£1005	£1685
220	25 fathom	£1065	£1785
221	26 fathom	£1125	£1885
222	27 fathom	£1185	£1985
223	28 fathom	£1245	£2085
224	29 fathom	£1305	£2185
225	30 fathom	£1365	£2285
226	31 fathom	£1425	£2385
227	32 fathom	£1485	£2485
228	33 fathom	£1545	£2585
229	34 fathom	£1605	£2685
230	35 fathom	£1665	£2785
231	36 fathom	£1725	£2885
232	37 fathom	£1785	£2985
233	38 fathom	£1845	£3085
234	39 fathom	£1905	£3185
235	40 fathom	£1965	£3285
236	41 fathom	£2025	£3385
237	42 fathom	£2085	£3485
238	43 fathom	£2145	£3585
239	44 fathom	£2205	£3685
240	45 fathom	£2265	£3785
241	46 fathom	£2325	£3885
242	47 fathom	£2385	£3985
243	48 fathom	£2445	£4085
244	49 fathom	£2505	£4185
245	50 fathom	£2565	£4285
246	51 fathom	£2625	£4385
247	52 fathom	£2685	£4485
248	53 fathom	£2745	£4585
249	54 fathom	£2805	£4685
250	55 fathom	£2865	£4785
251	56 fathom	£2925	£4885
252	57 fathom	£2985	£4985
253	58 fathom	£3045	£5085
254	59 fathom	£3105	£5185
255	60 fathom	£3165	£5285
256	61 fathom	£3225	£5385
257	62 fathom	£3285	£5485
258	63 fathom	£3345	£5585
259	64 fathom	£3405	£5685
260	65 fathom	£3465	£5785
261	66 fathom	£3525	£5885
262	67 fathom	£3585	£5985
263	68 fathom	£3645	£6085
264	69 fathom	£3705	£6185
265	70 fathom	£3765	£6285
266	71 fathom	£3825	£6385
267	72 fathom	£3885	£6485
268	73 fathom	£3945	£6585
269	74 fathom	£4005	£6685
270	75 fathom	£4065	£6785
271	76 fathom	£4125	£6885
272	77 fathom	£4185	£6985
273	78 fathom	£4245	£7085
274	79 fathom	£4305	£7185
275	80 fathom	£436	

Pair trawlers' big debut

LIMANDA, the wooden multi-purpose vessel bought locally at the end of last year by Consolidated Fisheries, got off to a great start pair trawling with the Danbrit-agented Taarnborg last week.

The new team collected £20,412 from a 13-day trip, of which Consolidated's vessel made £10,957.

It is not the first time Limanda has operated as a pair trawler. Before being sold to Consolidated she had several spells with different Richardson partners.

However, the four-year-old vessel then settled down as a conventional anchor-seiner and for well over a year, under Skipper Harry Thomson, was one of Grimsby's top seiners.

Limanda has been working as an anchor-seiner with Consolidated this year, and since her sale she has been under the command of Skipper David Rose. Being experienced both in seining and pair fishing, the changeover gave him few problems.

Taarnborg had been pair trawling under Skipper Johnny Hill since coming off the winter sprats with Leanda.

It is the first time Consolidated has had a pair trawler working through its offices, but the company is looking at this aspect of the local industry very closely.



Skipper David Rose of Limanda (far left). She is now pair trawling with the Danbrit-agented Taarnborg.

MEGRIMS TAKE TOP SPOT AT FLEETWOOD

FLEETWOOD had one of its biggest landings of megrims in years last week when the French stern trawler Kereon put into port with 65 kits of the variety.

In addition the vessel landed 30 of hake, 45 of cod, 250 of haddock, 15 of whiting, 70 of coley and 21 of ling in her total of 702 which sold for £20,633—the week's biggest grossing.

But not far behind was a local ship—the stern trawler Boston Stirling. Skipper Bill Bridge continued a good run in the vessel by bringing her back to port with 735 kits—310 of cod, 150 of haddock, 280 of coley and four of hake—which sold for a total of £19,657.

For the stern trawler Luneda there was a smaller catch—a disappointing 586 kits—but with fishing on the middle water grounds slack it was not surprising. The vessel's 586 kits sold for a total of £16,000.

Also hit by slack middle-water fishing was the large side trawler Ella Hewett. She was out on an 18-day trip, caught 456 kits—170 of cod, 120 of haddock, 10 of whiting, 40 of coley and 70 dogs—which sold for £12,949. This resulted in a loss on the voyage.

Quality

Top near water trawler London Town, commanded by Skipper Jim Buckle, which made £7,784 from 456 kits. But the far smaller boat trawler Marie Jacob, Irish vessel, proved its quality can often outwit quantity when she landed just 50 kits—more than 40 soles—to make £6,413.

There were again high prices for most varieties.

TRANSATLANTIC FISHING SYSTEMS LTD

**NOW OFFER COMPLETE
LONG LINING SYSTEMS
including HAULERS, PUMPS, ROPE
DRUMS,
HOOKS, SWIVELS, NYLON,
STAINLESS and MONO SNOODS,
GREENFIL, SEAQUEEN and NYLON
LINES,
LINE BINS, SNOODSTORE BINS,
DAHN FLOATS, POLES, RADAR
REFLECTIVE FLAGS
And of course CLIP-ON SNOODS,
to suit line sizes from 2½-10mm dia.**

**SEE US ON STAND B629G
at Catch '78 Aberdeen**

ALSO, "LITTLE CHIEF" ELECTRIC SMOKE

**SEND SAE FOR LISTS, enc. 25p p.o. for
sample snood with stainless trace.**

**SPECIAL: No. 2 stainless hook — RING
ENDED but fits Mustad swivel £4.25/100**

CRAB POT SNATCHER JAILED

OVER £1,000 worth of crab pots and rope have been stolen off the Dorset coast.

Fishermen have lost their livelihoods because of the activities of Nigel Charlton (34) of Wakeham, Portland, the island magistrates said.

Mr. Charlton, married with four children, stole pots off Durdle Dor and

Portland to equip his own boat.

He was desperate because poor weather and low catches had made it difficult for him to keep up repayments of £120 a month on Bon Ami, said his solicitor, Anthony Hunt.

He is most unpopular and has to rub shoulders with the very fishermen from whom he stole it, he said.

Mr. Charlton admitted four charges of theft and was fined £100, jailed for three months, suspended for a year and ordered to pay £430 compensation.

LOWESTOFT is to have a new slipway capable of taking vessels up to 600 tons. It will replace a 70-year-old wooden slipway built by a former Lowestoft shipbuilding firm which has been dis-

used for the last seven because of the long waiting list.

A six-figure contract for the work, including steel piling and the reinforced concrete slipway, has been placed with the Ipswich office of Tilbury Construction Ltd. by George Prior Engineering of Great Yarmouth.

The old Laundry Lane slipway, as it is known at the port, was used during the last war for repairing MTBs and was later taken over by the British Transport Docks Board.

In recent years Lowestoft trawler owners have often had to send vessels to other ports because of the lack of slipping facilities in Lowestoft. In many cases ships have had to be sent across the North Sea to be repaired.

TWO Hull trawlers back from Bear Island and the White Sea trips had total landings at Hull on Monday of 2,482 kts. Hamling's St. Gerontius (Sk. P. Grayburn) grossed £23,468 for 1,444 kts, while BWT's Lord St. Vincent made £23,877 for 1,018 kts.

LETTERS

the opinion that such water, if consumed, can cause cancer.

We would advise that we have some experience of problems arising due to styrene contamination of the drinking water in such tanks. Briefly, the styrene pollutants appear to be given off from blisters in the tank gel-coating. The reasons for such blistering are numerous, but the oft quoted "catalysis" is certainly one.

Research into the cause and effect of GRP blistering has been, and is being, carried out by numerous bodies. What your correspondent wants to know is whether the affected water will be safe to drink and we can only say, at present, that there appears to be considerable doubt on this score.

We do know of a senior hospital consultant who changed his affected water tank to stainless steel because he is of

We are at present engaged in investigating the possible health hazards but, at this time, would suggest that your correspondent fits a stainless steel tank of good quality, with an access hatch as suggested by Mr. Burgess.

If your correspondent has now built in his tank and cannot easily alter it, he may be able to fit a rubber or plastic tank inside. If he can get his fitting and supply pipes connected

Boats diverted DUTCH HAVE TO LUMP IT

FLEETWOOD'S Dutch connection—for the transhipment of soles to Holland—hit a snag last week when a demand by lumpers for £3 a man extra for landing the boxed fish was refused.

This resulted in two Dutch beamers, Marco and Johanna Cornelia, being diverted to nearby Glasson Dock where the crews unloaded their fish on to trailers for shipment to Holland.

Talks between the lumpers and Fleetwood owners on Wednesday last week ended in deadlock and more Dutch vessels had to put into Glasson to land catches.

Mixed

It was in the late 1960s that Dutch beam trawlers began using Fleetwood as a landing base during the Morecambe Bay sole season.

Their soles—apart from small quantities of large—were always sent to Holland, but what mixed varieties they caught were sold on the local market. Last week talk was being arranged and also on the matter of landings from Iceland at the port, which have been banned by lumpers.

Colne's St John is back

THE Colne Group's stern trawler St. John, damaged in the bow some weeks ago, has now been put back into service. She had a new bow section following a fire.

The work of fabrication of the new section was done by George Prior Engineering of Yarmouth and the fitting carried out by the firm of Lowestoft dry docks.

The vessel was due to sail on ice last week but was held up by light mud and very rare swallows more than a few inches above the bottom.

Although the proportion of

Useful

This fact and the related limitations should be kept in perspective as, although echo sounders are very useful instruments when operated correctly, they do not as some people may think bear any resemblance to a "Star Trek" style life sensor.

Should, however, Mr. Burgess know of such a machine, I am sure the east coast Inshore Industry would be very anxious to hear from him.

STEPHEN E. HOLMES,
(for and on behalf of)
Brown & Perring
Instrumentation Ltd.
7 Bishopsgate,
London EC2A 7DT.

'Big ship' slip for Lowestoft

MAN (73) DROWNS

BRITISH Transport Docks Board police had to call in divers last week to recover the body of the watchman from the Grimsby seine-setter Scenby after he had been reported missing.

Later the body of 73-year-old William Thomas Dainty was discovered in the No. two fish dock by Doughty's of Grimsby where Scenby had been berthed.

Mr. Dainty leaves a wife and a grown-up family. He had been a watchman on seine-setters for a number of years and was considered by Sleight to be one of its most reliable.

Seafarer.

For price, for service.
Above all,
for performance.

Recognising the professional seaman's need for high quality, reliable equipment, the Seafarer people design, test and build with the most rigorous conditions in mind. And throughout the world our equipment is covered by an extensive service network.

So how do we explain Seafarer prices? Quite simply. By modern production methods and volume manufacturing. Every 7 minutes, day and night, 365 days of the year, a Seafarer equipment leaves our Poole factory for service at sea.

1. Radar

1.1 Seafarer Radar 10, 10 n.m. range capability. Low power consumption.

1.2 Seafarer Radar 10, 10 n.m. range capability. Many 'big ship' features.

1.3 Seafarer 10, 20 n.m. range.

1.4 Seafarer 10, 20 n.m. range.

1.5 Seafarer 10, Multi system radar.

1.6 Seafarer 10, Multi system radar.

1.7 Seafarer 10, Multi system radar.

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1.35 Seafarer 10, Multi system radar.

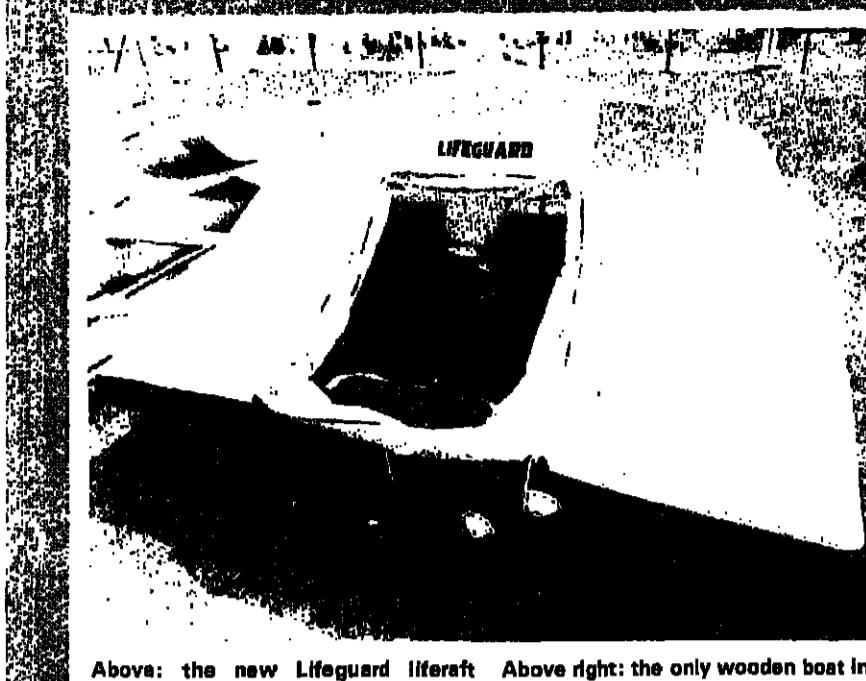
1.36 Seafarer 10, Multi system radar.

1.37 Seafarer 10, Multi system radar.

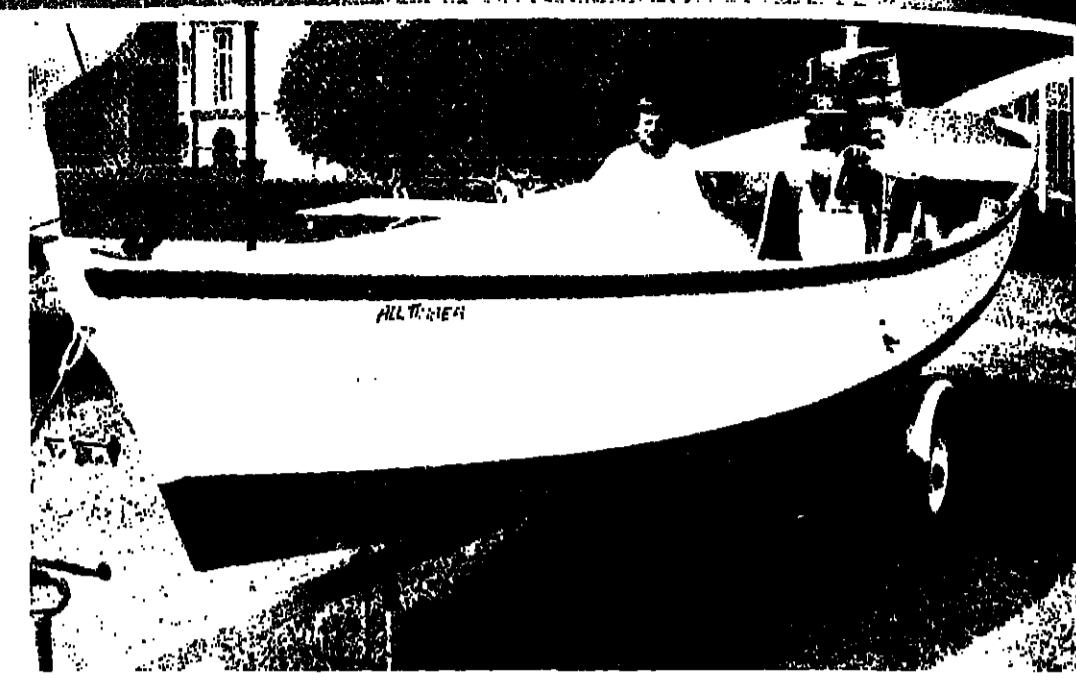
1.38 Seafarer 10, Multi system radar.

International SEAFARER RANGE





Above: the new Lifeguard liferaft which offers good value for money but, as yet, no DTI approval.



Above right: the only wooden boat in the show was this Poole Punt, made by Lythett Bay Boat Yard of Poole.

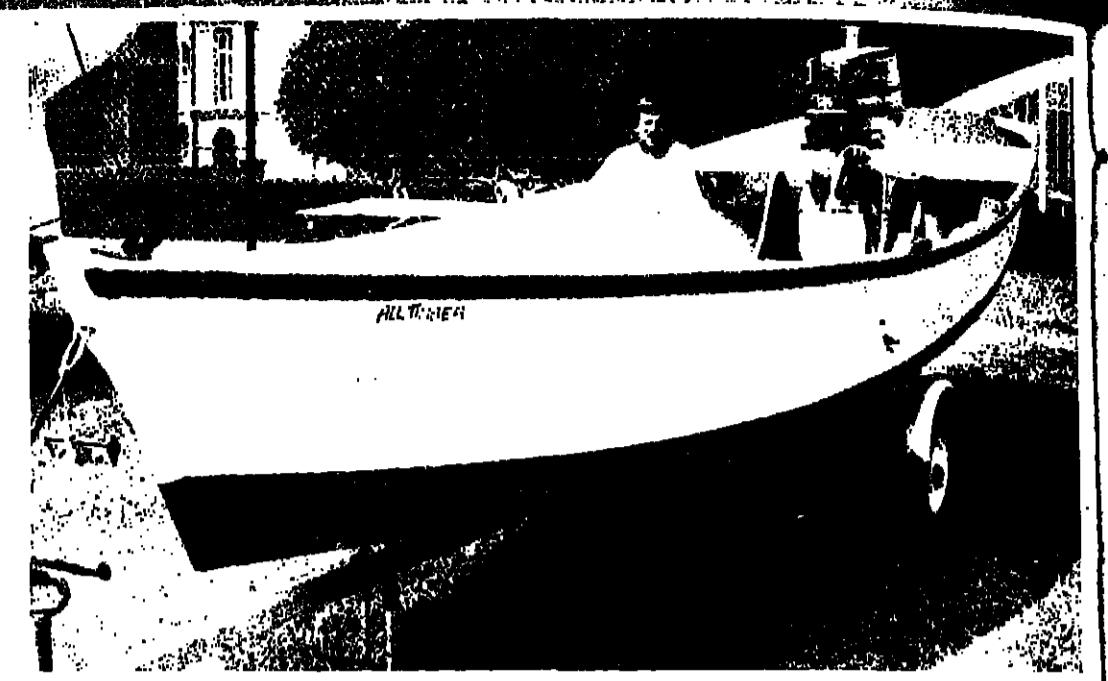
ONE GOOD TRIP DESERVES ANOTHER

Scottish fishermen do battle in the roughest conditions. Imaginable to bring back some of the finest fish in the world. Bellamy are on hand when they come home to secure the best of the catch and ensure that it is delivered to you in perfect condition. After all when our fishermen take all that time and trouble to get it to port we feel it only fair to make the next trip one you can depend on.



BELLAMY SEA FOODS

4/6 Windmill Street, Peterhead. Tel.: Peterhead 8941. Telex 73687



Right: on show for the first time is the new 30-footer from Aquarius Boats of Porthleven, Cornwall.

Below: South Western Mechanised Fishing's new 1000 kg. Celtic Slave hauler.



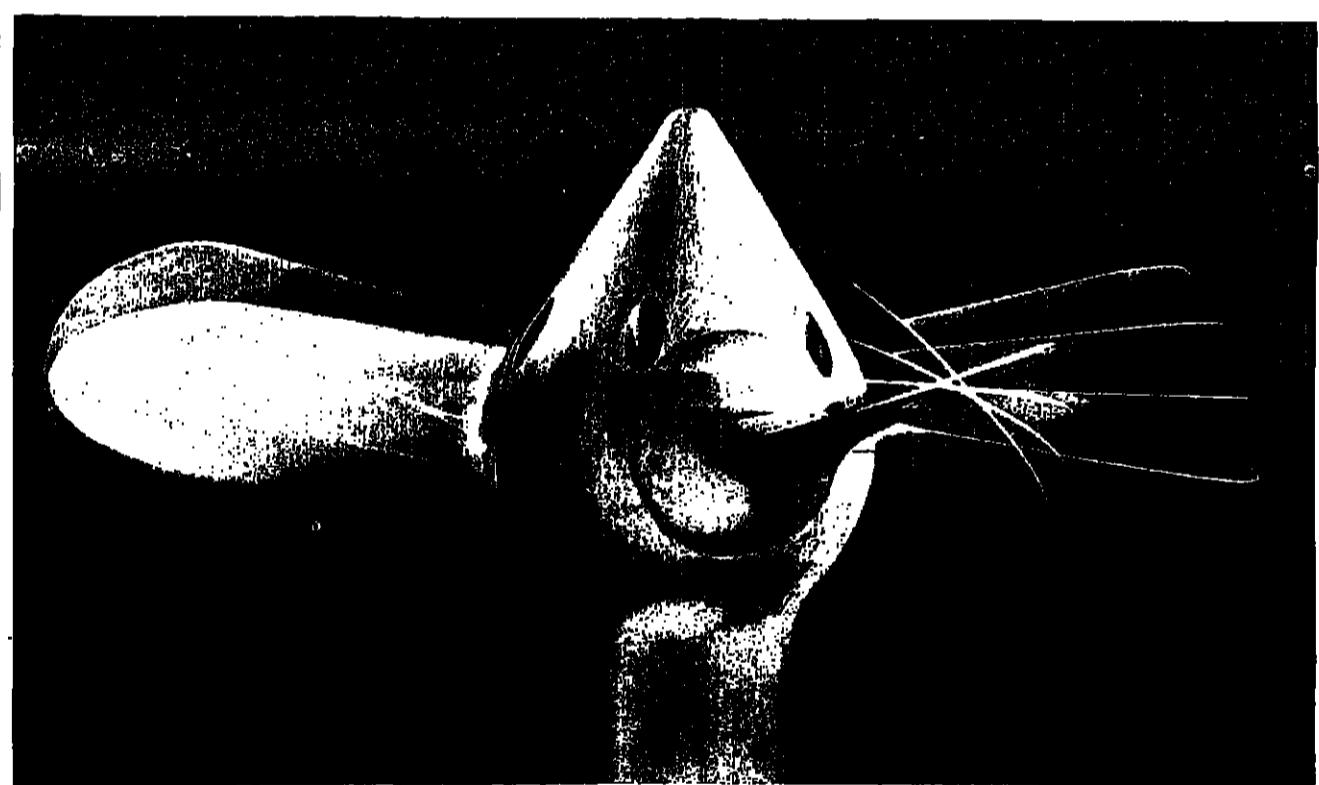
This is the Lifeguard made in both four and six man versions but, as yet, does not have DTI approval (this is expected shortly).

Unique

Plymouth had nearly half of its exhibits of interest to fishermen. In this it is unique and the organisers and exhibitors were rewarded by a large turn out of potential customers. The fine weather — very necessary for this type of open air show — perhaps kept some customers away because the same weather which is good for the exhibition is also good for fishing.

Altogether a very successful show and one where the battle for fishing boat orders started to hot up. The firms which can win orders on their home ground are likely to do well elsewhere in the British fishing market.

THE REVOLUTIONARY PROPELLER



Some 40 years ago, we started making our Multi Pitch propellers in order to unite maximum power, speed and manoeuvrability in the same propeller unit.

The pitchable propeller blades in a Multi Pitch unit offers unique manoeuvrability in any condition, and you can choose between maximum power or maximum speed without changing the engine's RPM.

**WE DEMONSTRATE ALL THIS
AT THE ABERDEEN EXHIBITION
STAND NO. A400**

Welcome

Hundested motor- & propeller fabrik a/s
Skansevej 1, DK 3390 Hundested
Denmark
Tel. (031) 45 21 17

Smaller hulls pull orders at Plymouth

THE WEST Country Boat Show which closed last week was notable for a big range of fishing boat exhibits for inshoremen.

With the country's major fishing exhibition firmly settled in Aberdeen, it appears that the West Country builders use this show to attack the local market. The event is now in its sixth year.

In sheer size the boat section was dominated by the 37ft. GRP hull from Cygnus Marine. But it was in the smaller hulls in this range which attracted the orders.

Halfway through the show, one 32, two 26s and one 21 had been sold, but it is significant that none of these are being sold in a completed state. More and more fishermen appear to be fitting out their own hulls.

Polished

The Cygnus boats are getting a very polished appearance with their moulded hatches and wheelhouses. It is only by this sort of progress that they can keep ahead of the opposition — and the strength of the opposition is mounting.

Trevea Marine, whose range is growing to Cygnus-like proportions, had sold five boats by the mid-way point in the show. Two were 25-footers, one of which is bound for Salcombe with a 30hp Lister diesel. The other is being completed as an angling boat for Dartmouth. The seventh hull of this type was sold at the show.

Trevea Marine also had drawings of its 34-footer which will be built initially in foam sandwich or C-Flex. The first of these will be going to the Channel Islands. A 20-footer is also on the stocks.

Aquarius Marine, which is based at the old Porthleven Shipyard, is the latest builder to join the battle. It was ex-

Economy

On the engine front there was little activity and hardly anything new apart from the range of Fiat diesels. Flat is making determined efforts to get into the fishing boat market, claiming both fuel economy and a competitive price.

For the show, Northern Southern England, Southern Winters Marine, was showing Brunton propellers with particular emphasis on the new four-bladed type which proved very successful on a Cygnus hull recently completed by Winters Marine Workboats. The Adonis boat at the show was the boat at the show was the boat with a Fiat diesel.

Among new equipment

The Cove Boat attracted a lot of attention at the Trevea Marine stand.

SHOWTIME IN ABERDEEN

list of exhibitors

	Stand No.
Abergen Holdings Ltd.	A264
Advances Design Developments	A261B
Afors Ltd.	B824
Alcoa of Great Britain Ltd.	B802
Alexian Electronics Ltd.	B800
Allibert Container Division	B732
Anderson Packaging	A414
(Aberdeen) Ltd.	A103
Anglesey Fire Protection	A362
Anglo Belgian Diesel Co. (UK) Ltd.	B730
Aquarius Marine	B850
Arenco AB	A412
Ashton Containers Ltd.	B700
Avon-Brunel Marine Ltd.	B830
F. Bamford & Co.	B806
Bank of Scotland	B892B
Bideford Shipyard (1973) Ltd.	A139
S. & P. Blair Engineers	B892E
Boris Nat Co.	A398
Jas Bowen & Co.	A21
Bridon Fibres & Plastics Ltd.	B848/B850
Bridport-Gundry Ltd.	A430
British Brown-Boveri Ltd.	B774
British Marine Equipment Council	A398
Henry Browne & Son Ltd.	A21
S. G. Brown Ltd.	B804
Brunton's Propellers Ltd.	B808
Caledonian Tractor & Equipment	A119
Campbeltown Shipyard Ltd.	A141
Cattermarine	B836
Challenger Diving	A261a
Christian Salvesen (Fish Selling)	B880D
Clydesdale Bank Ltd.	A288
Colts Engineering Co.	B518
Coast Ltd.	B780
C-Power (Marine) Ltd.	B808
Cummins Engine Co.	A308
Cygnus Marine Ltd.	Outside Display
Danish Export Group Association	A230 & A280
The Decca Navigator Co.	A330
Deerbridge Electrical Engineers Ltd.	A360
Department of Agriculture & Fisheries for Scotland	A438
Department of Trade & Industry	B602
Dorman Diesels Ltd.	B800
DRG Merton Packaging	A117
M. G. Duff & Partners Ltd.	B804
J. F. Duffield & Partners	B820
	B892D

Your ticket to Catch '78

ADMIT TWO
Complimentary Ticket



CATCH '78'
ABERDEEN INTERNATIONAL FISHERIES & MARINE EQUIPMENT EXHIBITION

QUEEN'S LINKS ABERDEEN
14-18 JUNE 1978

Organised by
Scottish Exhibition & Conference Bureau
Edinburgh House, 110 Fife Street, Edinburgh, EH2 2AS
Telephone: 01-553 4866/7/8/9/10/11/12

From: June 14 - 18

Venue: Queen's Links, Aberdeen

Daily opening: 10.00-18.00 hours

Organisers: Eagle Exhibition Consultants



Sponsors: City of Aberdeen

Aberdeen Fish Producers' Organisation

Anglo-Scottish Fish Producers' Organisation
British Marine Equipment Council (Fisheries Division)

Herring Industry Board

Scottish Fishermen's Co-operatives

Scottish Fishermen's Organisation

Scottish White Fish Producers' Association

White Fish Authority

Kempsele Ltd.	B541
W. & J. Knox Ltd.	B540
Krupp Atlas Elektronik	A412
R. & B. Leakey	B802
Samuel Leadray & Sons Ltd.	B830
R. A. Lister & Co.	A398
(Marine Division)	A399
Loesie Hydraulic Co.	A300
Lucas Marine Ltd.	A105
Edward Macbean & Co.	A432
Mecros (Ardilaig) Ltd.	B544
Marine & Industrial	A399
Transmissions	B540
Maurer & Sohne	A209
McTavish Miller	B446
Mirriles Blackstone	A281
Moba B. V. (UK) Ltd.	B534
Morep Ltd.	B522
	B244
	B523
	A123
The Napier Co. (Aberdeen)	B776
Neco Communications Ltd.	B778
Nowage Engineers Ltd.	B779
Nordischer Maschinenbau Rud	B532
Norgear A/S	B542
Hugh Norman (Marine Sales) Ltd.	A101
Northern Tool & Gear Co.	A135a
North Sea Winches	A424
Odd J. Solmstad	B524
Orkney Boatbuilders Association	B534a
Outdo	B524b
Display	B524c
Parsons Chain Co.	B702
Peterhead Harbours	B818
Peltons Co.	A408
Potters Ltd.	A382
Post Office	B780
Telecommunications	A404
PSIMAT Ltd.	B848
P. W. Insulations	A420
Refrigeration (Aberdeen) Ltd.	B286
Richards (Shipbuilders) Ltd.	B508E
RNLB	A478a
James Robertson & Sons (Fleetwood) Ltd.	A428
Roundlands Ltd.	B522C
The Royal Bank of Scotland	B680
Ruston Diesels Ltd.	A394
Seab Division	B524d
Seab	B524e
Display	B524f
SAIT Electronics	A622
Salvus Bain (Management) Ltd	A118
I. T. Scott	B600B
Scottish Boatowners' Mutual Insurance Association	A402
Scottish Federation of Fishermen's Co-ops	B602H
Sea-Dog Life Saving Appliances (Scotland) Ltd.	B510
Seaman's Mission	B600A
Self-Changing Gears (a/o Alvia Ltd.)	A111
Shortway Ropes & Guides Ltd.	B560
Charles Biddon Ltd.	A382
Societe Grossi	B602A
South Western Mechanised Fishing	B623
Spark's of Aberdeen Ltd.	B600
Stork-Werkspoor Diesel B.V.	B600
Strathclyde Marlines & Industrial	B602X
Per S. Stromberg A/S	A410
J. & W. Sturt Ltd.	A418
Styropack (UK) Ltd.	B546
Tamar Boat Enterprises Ltd.	A382
T. & H. Fire Extinguisher Co.	B514
Tillotson Case Division	B515
Transatlantic Fishing Systems	A137
Trawl Equipment (Aberdeen)	B520
United Wire Ltd.	A418
Volvo-Penta	A588
Wagner Engineering Associates	B516
Wald Morgan Associates Ltd.	B544
Warwick Pump & Engineering	B545
Wesmar Sonar Marine Radio	B546
Wheway Watson Holdings Ltd.	B547
White Fish Authority	B548
Wilmer Engineering Co.	B549
"World Fishing"	B550
Woodsens of Aberdeen Ltd.	B551

Stand numbers subject to change

THE MOST powerful display of fishing hardware seen in Europe for a long time will be gathered on the Queen's Links at Aberdeen next week. A host of equipment from 16 countries will be unveiled when the Catch '78 fishing exhibition opens on Wednesday, June 14, for a five-day run.

The reputation of the "Catch" series of exhibitions has grown rapidly following its debut in Devon three years ago. Now, at Aberdeen, the series takes on the status of an international show. This has been brought about, not only by the equipment which comes from all areas of the world, but by the promise of visitors from New Zealand to Iceland.

The show — nearly twice the size of the last Scottish exhibition in the series at Aberdeen in 1976 — will cover some 100,000 sq. ft. and the organisers claim that "it will be the biggest fishing show in Europe", looks well founded.

A dominant presence at the show will be maintained by Norway with a national stand comprised of 11 companies, with equipment ranging from power blocks to fish boxes. The Danish Export Association will also be weighing in with a large display.

A number of exhibitors will be using the show to put equipment on public display for the first time.

Among these will be Marcon with its multi-coloured electronics shop. This will feature the Japanese manufactured Koden Chromascope colour display echo sounders.

A big line-up of processing equipment at the show will be headed by a new machine from Germany developed for blue whiting. The Baader 131 is a combination heading, filleting and skinning machine. Worked by two operators, it can fillet blue whiting at a speed of 120 fish a minute. A pilot unit is now installed at the Rolf Olsen factory in Stornoway, Isle of Lewis.

Arenco of Sweden will also be introducing its C18-80 machine for skinning white fish fillets. An important advantage claimed for this machine is that it uses a "fixed" skinning knife.

The show will have plenty of power on tap with 35 suppliers of marine engines, auxiliaries and transmissions to customer specifications up to 26 tonnes mid-layer pull.

The firm has a standard range of twin-drum winches, from 4 to four-ton mid-layer pull, and can supply winches to customer specifications up to 26 tonnes mid-layer pull.

European Marine & Machinery Agencies (Stand A208). This company will principally feature a Reintjes type WAL 400 ratio 4:1 gearbox with hydraulically operated clutch. Together with the reverse/reduction gearbox.

Berg controllable pitch Tamar Boat Enterprises Ltd. will add up to a feast for fishermen.

Saturday and Sunday are expected to be the big days at the show, with most of the inshore fleet home for the weekend.

Group visits have been arranged by fishing organisations in Devon, Cornwall and Grimsby.

The only thing missing this time at the show will be a fishing conference. This was going to be staged by the White Fish Authority, but has now been postponed.

Exhibitors are reported to be not too disappointed at this news — fisherman more time to buy!

In the following pages we take a look at some of the equipment to be displayed.



Colts Engineering. This firm based at Ryton, Tyne & Wear, manufactures a range of hydraulic deck machinery as successors to A. W. Smallwood. This covers windlasses, seine capstans, trawl winches up to 25-ton mid-layer pull and net drums.

There will be a cut-away model of the Reintjes type BGA 200 gearbox showing the principle operation of this gearbox design.

Also from Berg, a model SPF 0-5 bowthruster of 50hp capacity will be shown.

Hydraulically operated cranes from Marco Espana SA, the Spanish subsidiary of the well-known Seattle firm of marine equipment designers and manufacturers are featured for the first time, as well as model cranes from the Marco range.

Dorman Diesels Ltd. (Stand A117). This firm will show its 12JTM 884 shp (288 kW) marine propulsion unit at Catch '78.

The unit consists of a 12 cylinder 'Vee' form, turbocharged, water cooled, diesel engine, close coupled to a reverse/reduction gearbox. Berg controllable pitch Tamar Boat Enterprises Ltd. The 8000 model trawl winch due to be shown by Colts Engineering.

Tamar Boat Enterprises Ltd.

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Tamar Boat Enterprises Ltd.

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CATCH '78 PREVIEW*From page 11*

Engine and gearbox are supported on individual mounting feet incorporating holding-down bolt holes and jacking screws.

The engine has a bore of 130 mm and a stroke of 125 mm giving a total swept volume of 19.9 litres, and is complete with 24 volt electric starting and charging systems and incorporated sealed no loss fresh water cooling system.

Cummins Engine Co. Ltd. (Stand A308) will be launching a new marine engine at the exhibition.

The new unit is the NTA-855-M, turbocharged and after-cooled addition to the Shotts built 855 range. The NTA-855-M produces 325 bhp (242 kW) at 1800 rpm.

For marine use, the 14 litre 855 is now available in naturally aspirated form producing 196 bhp (145 kW) at 1800 rpm. There is a turbocharged 276 bhp (205 kW) version and the new 320 bhp (239 kW) rating.

The NT-855-M which produces 276 bhp (205 kW) at 1800 rpm will also be on show. Rotational piston speeds of this model are low, 30 ft./sec. (9.1 m/sec.) comparable with medium speed engines.

The NTA-855-M is a compact, lightweight unit with a choice of PTO positions. At the front end a clutch or hydraulic PTO can be fitted.

The Cummins V-504-M engine has proved popular with fast inshore boats. With an output of 182 bhp (134 kW) at 2200 rpm the V-504-M has a very high power to weight ratio. It is a compact engine thus minimising installation difficulties and giving the most capacity for payload.

The biggest Cummins engines are available in inline models. The K family of engines are available in inline six, Vee 12 and Vee 16 formations. The Vee 16 is the latest K model — announced at the Hanover Show in April.

The in line six cylinder KTA-1160-M and the Vee 12 KTA-2300-M will be at the exhibition.

The K series share the same 6.25 in. (159 mm) bore and stroke dimensions and have a 85 per cent parts interchangeability between the models in the range.

The KTA-1160-M produces 470 bhp (350 kW) at 1800 rpm.

In Vee 12 form the KTA-2300-M has a power rating of 940 bhp (701 kW) at 1800 rpm. Compared with medium speed units of similar output the KTA-2300-M is around three tons lighter, making for greater payload potential.

With many years of ex-

B&W Alpha Diesel AS participates on the Danish national stand. B&W Alpha Diesel engines, covering the horsepower range from 400 to about 5,000 bhp, were introduced into the British market in 1972.

The complete propulsion system consists of engine, reduction gearbox, propeller equipment, remote controls, and all necessary accessories to cover a complete propulsion package, all designed, produced, delivered, serviced and guaranteed by the same company.

As a new development, propulsion systems based on four-stroke, inline, diesel engines, ranging from 725 bhp to about 2,000 bhp have been introduced this year.

On show is a complete propulsion system, type SV25L-VQ, based on an eight

cylinder, vee-built, four-stroke diesel engine developing 1160 bhp at 800 rpm.

B&W Alpha Diesel AS is represented in UK by Ferguson & Timpson Ltd., Glasgow. Service agents are Northern Engineering Works, Peterhead, and H.N.P. Engineers, Lerwick, Shetland.

Anglo Belgian Co. will be highlighting its full range of marine propulsion engines.

Photographic displays will include the first UK public showing of the newly-developed DZ engines and ABC-powered trawlers under construction.

ABC engines are medium speed designs, the well-established DX design, and the newly developed DZ which adopts a very high power-weight ratio concept of around twice the output of the DX from the same weight and size.

The DZ engine, presently available in six-cylinder form, develops 1800 h.p. at 1,000 rpm pressure-charged and inter-cooled as standard. DX engines are three, six and eight cylinders in-line, naturally aspirated or pressure charged with or without inter-cooling, covering an output of 186-1,200 hp.

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CATCH '78 PREVIEW

From page 15

brick" of the handwheel injuring the helmsman when external forces act on the rudder. This feature is also considerably advantageous when fishing where it is desired to hold the rudder partially over for long periods.

Like all "Wills-Ridley" swivelling cylinder steering systems, spherical bearings are fitted to the cylinder pivot and piston rod ends. These, together with the use of short lengths of flexible pipe, allow complete freedom of rudder movement and considerably assists in shipboard installations. They also permit slight rise and fall of rudder stock during service without any adverse effect.

Edward Macbean has been making foul-weather clothing since 1876. Part of its display at Catch '78 will be the well known Vincor 27 range of industrial fishing waterproofs made of heavy-duty PVC on cotton, and PVC on nylon.

All the garments have been specially treated to resist fish oils and animal fats, and all seams are electronically welded. The garments are supple and are designed not to split or crack even in low temperatures. Also on show for the first time will be a new range of thermal clothing. A selection of garments from the other Macbean ranges will be available for inspection.

DGR Merton Packaging will bring its Pachyderm non-returnable fish boxes to the show. Manufactured from a waterproof solid fibreboard, Pachyderm fish boxes are claimed to be unaffected by running water, ice, damp or freezing conditions. Used widely throughout the United Kingdom, they are easier to handle than wooden boxes as they avoid the problem of splinters and can be attractively colour printed.

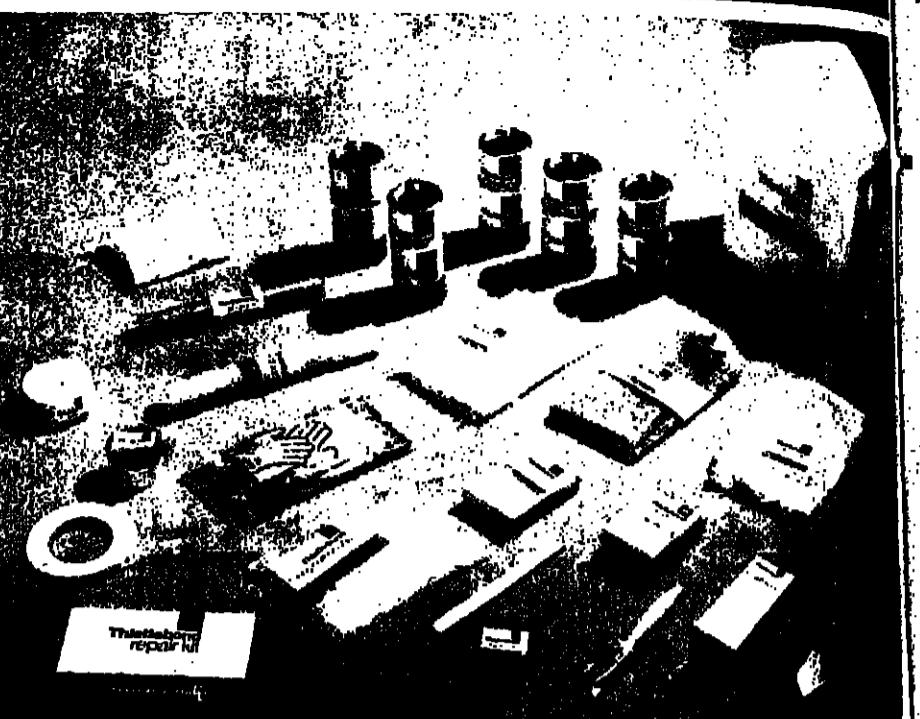
A new development in fish boxes is the glued container made up on automatic gluing machinery which eliminates the need for metal staples.

Also being displayed is the wedge-shaped Marstone Four non-returnable open-topped fish kit. This fibreboard box is designed to land and carry small fish from small ports to processors and merchants at the main centres. Advantages of this one-trip container against conventional wooden and plastic boxes include losses, repairs, cleaning, limited journeys and return transport charges. The Marstone Four can also be used for the bulk freezing of fish.

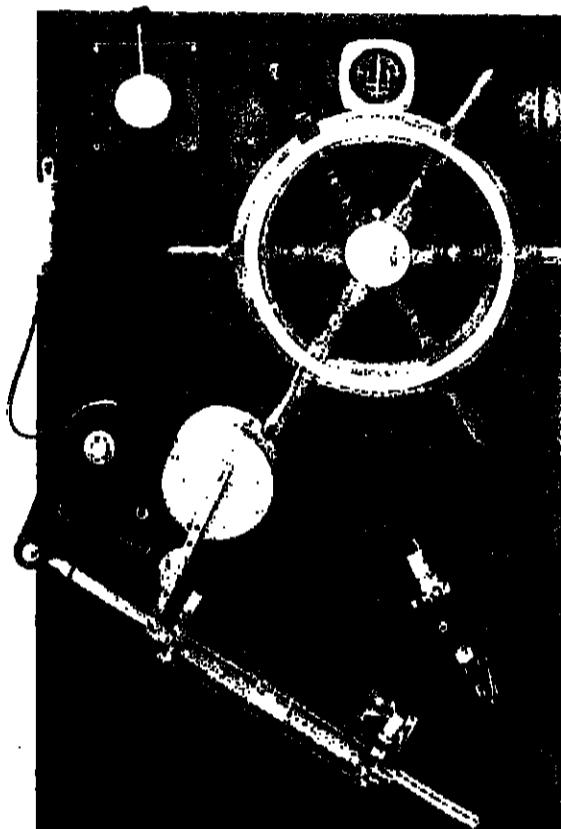
South Western Mechanised Fishing. The company specialises in hydraulic equipment and purpose-designed hydraulic systems and has equipped a large proportion of the south-west fleet, also many other vessels in other areas and abroad in the last four years.

The main exhibit is the new Celtic Slave 1,000 Kg. pot hauler developed from the successful Celtic Slave 4-ton and 14-ton haulers. The new hauler features hardened stainless steel hauling sheaves and other improvements resulting from operational experience with over 40 installations.

Illustrated will be net drums up to 24 tons; a new 7½-ton multi-purpose net drum with clutched drum and warning captain and heavy-duty clutched hydraulic pump, etc. Agents are required for these products in Scotland.



Above: contents of a Thistleabond repair kit — just what's needed to keep you fishing. Below: hydraulic steering gear from S. M. Wills. The firm offers systems for many classes of boat.



clude Gordian and Agip steel banding, Hypl polypropylene strapping, Tytpe and Tycord resealing materials, wire tie staples and others.

In addition to strapping equipment and materials, the exhibit will feature the Canadian Spacefiller, an inflatable re-usable drumage bag for protection of freight against journey hazards.

Inco-Ziegler (UK) Ltd. St. and A202/204. Specialists in ice machines and ice systems, it will be showing various models from its range of automatic compact units.

The largest unit shown, model UBE 5000A, produces five tons of ice per 24 hours and is delivered in a single cabinet ready to run. It requires only connection to water and electric supplies.

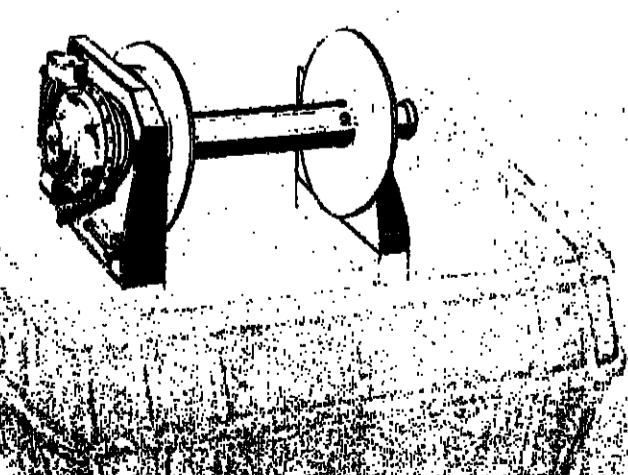
Apart from its compact design, this unit comprises two ice makers in one cabinet. They can be used singly or together according to demand.

Inco-Ziegler will also be showing a sample of its storage bunkers.

Sea-Dog Life Saving Appliances (Scotland) Ltd. As stockists and suppliers of DoT approved safety equipment to yacht, trawler owners, fishers and fisherman's co-ops, Sea-Dog will be showing lifejackets, distress signals, fire fighting equipment, navigation lights, etc.

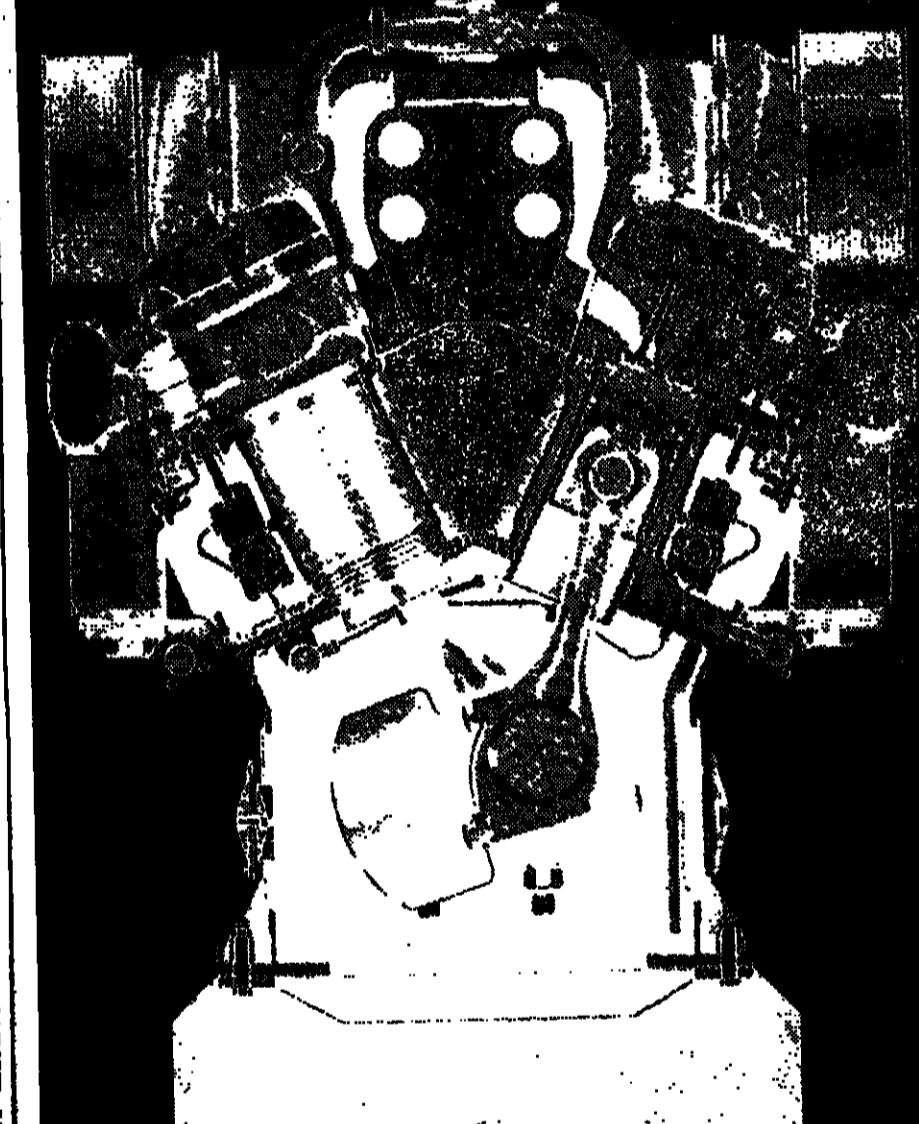
The firm will also feature a wide selection of manual, pneumatic and electrically-operated strapping tools for use with steel, polypropylene and rayon strapping.

Materials on show will in-



Artist's impression of a 7½-ton hydraulic net drum being offloaded by South Western Mechanised Fishing.

THE DIESEL TWINS



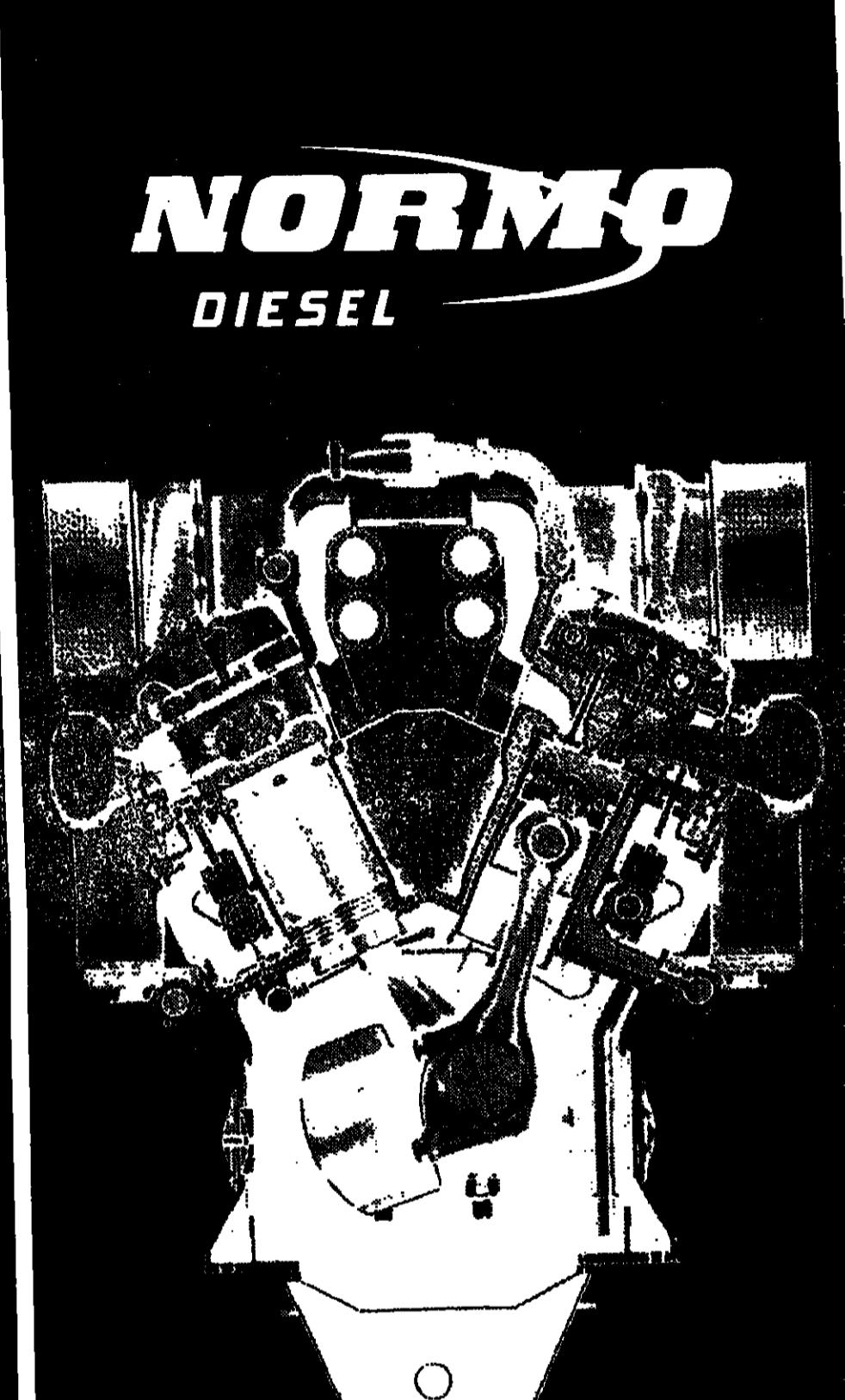
Bergen Diesel Generating Sets
serve aboard merchant vessels,
offshore installations and power
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We know that oil is not the only resource in the sea.

Nowhere else in Europe is there such an abundance of good fish as there is in the waters around Scotland.

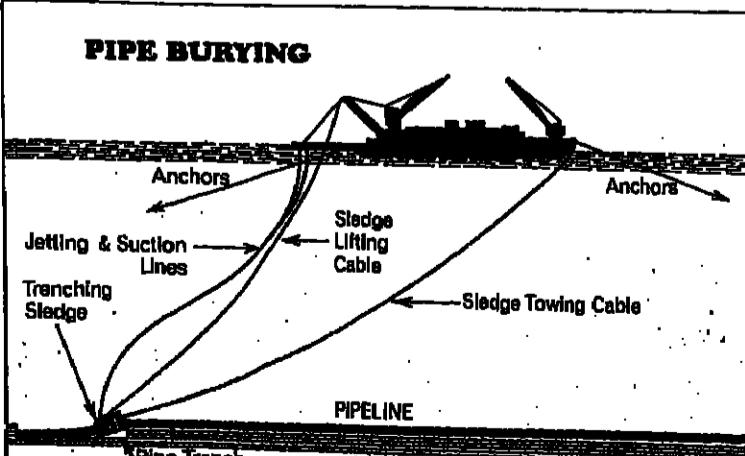
But Scotland's fishermen already face increasing problems and we in the oil industry are making sure we don't add to them.

To this task we have brought a vast amount of conservation experience and have consulted the fishing industry at every stage. Above all we have drawn on the unique experience of local fishermen.

One result of all this is that the pipelines from the oil fields will be buried under the seabed. And when we cross rivers and inland waters too, we are taking good care not to cause disturbance.

These are part of the wide range of oil industry conservation activities which cover many aspects of life in Scotland - its landscape, wildlife and traditional industries. All are designed to make sure that as we cast the net of progress more widely, we do nothing to hazard existing resources.

Oil sea pipelines are buried to prevent them hindering trawling operations.



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CATCH '78 PREVIEW

ONE OF the biggest national exhibits at the show will be mounted by Norway. Eleven companies will be housed on the now familiar trawler-shaped stand.

Hydraulik Brattvaag. Seine winches with pulls from 1.7 to 9 tons for Scottish seining and similar forms of fishing. Drum winches to haul the purse wire, and also winches for combined purse-seining/trawling operations, with capacities to customers' requirements. For long-line and net hauling the company produces units with pulls of 1.2, 2.0 and 2.5 tons.

For trawling a wide range of winches is supplied plus the Synchro system, for automated fishing.

Finsam Industries Ltd. This manufacturer of refrigerated containers is highly specialised in the delivery of equipment for production, storing and handling of plate-ice, both for sea and land installation.

The labour-saving sea-borne ice plants, with the ice produced, stored and pneumatically transported directly into fish boxes, are now installed on almost 100 wet fish trawlers and purse-seiners operating in Northern Europe.

Finsam has delivered two plate-ice plants to Scotland, both with production capacity of 50 ton/24 h, this year. The first one was to the Fraserburgh Ice Company — a member of Association Cold Stores Limited. The second one — for the new harbour of Bressay, Isle of Lewis — was a "container-plant," complete with pneumatic transport of ice, ordered by the Highlands and Islands Development Board.

Finsam also specialises in containerised ice plants. In addition there is the Anglia model — a versatile easy-to-tow midwater trawl which can be used for conventional midwater trawling for mackerel, herring or sprats or as a "one foot over the bottom" trawl after sandeel and pout. This trawl can also be rigged as a pair trawl.

Starplasteknisk. Designs for all types of fishing vessels.

These have been supplied including the largest purse seiner in Denmark, now under construction at the Alborg. The company also designed the Scottish purse seiner *Talita* which was recently delivered.

Other work includes

white fish bottom/pelagic

trawlers of 110-230 ft, and

combined longliners / trawl

ers / gillnetters of 110-150

ft, as well as freezer /

trawlers and purse seiners

up to 200 feet.

Stromberg. A new plastic fish box specially

designed for the UK will be

featured.

Winches for fishing

vessels can be delivered

with pulls up to 60-tons,

remote control, automatic

spooling device, hydraulic

ally operated band

brakes and Auto-trawl

system, all according to

their special fields.

Whilst the individual

yards are usually fairly

small, combined capacity is

considerable, and the work-

force numbers some 4,000.

The sales office in Bergen

employs 14 persons highly

experienced in negotiating

sales on behalf of member

yards.

On behalf of customers

abroad the association's

sales office will secure

quotations from suitable

yards and also, if desired,

provide drawings and

specifications. The sales

office will also advise on

financing possibilities.

WNSA has delivered six

fishing vessels to Ireland,

nine to Scotland and four to

the Shetlands of both wood

and steel construction.

Norsenet. This firm has supplied British vessels with purse seiners since 1965, when the first vessel, *Princess Anne*, was rigged with power block and came to Bergen to fetch her net, a purse seine of 280 by 70 fathoms.

Longlining looks like heading for a revival and Norway's Mustad Autoline system has already

been demonstrated to Scottish fishermen. Magazines hold the clips (left) while an operator

(right) baits using whole fish. Below: plate freezer from Kvaerner Kulde.

lengths. Manual baiting and

carrying of tubs are

eliminated.

By installing the Mustad

Autoline System it is claimed

that crewing can be

reduced by 2-3 men.

Bergens Mekaniske

Verksted. Norwinch low

pressure hydraulic deck

machinery was introduced

in 1946 and is now installed

on more than 6,000 vessels.

The Norwinch hydraulic

motor and power transmis-

sion control system was

originally developed to meet

the need for a flexible winch

power transmission on board

fishing vessels. Norwegian

fishing vessels in particular

are regularly operating in

rough seas, and in these con-

ditions an hydraulic power

transmission with pressure

relief valve control provides

the protection necessary to

prevent damage both to

winch and net.

The Norwinch low

pressure hydraulic power

transmission equipment is

built to withstand prolonged

periods of fluctuating load

and is designed to require

the minimum of

maintenance.

Hydraulic systems for

braking and towing have

been developed for trawling

operations.

Simrad. One of the leading

electronics manufacturers in

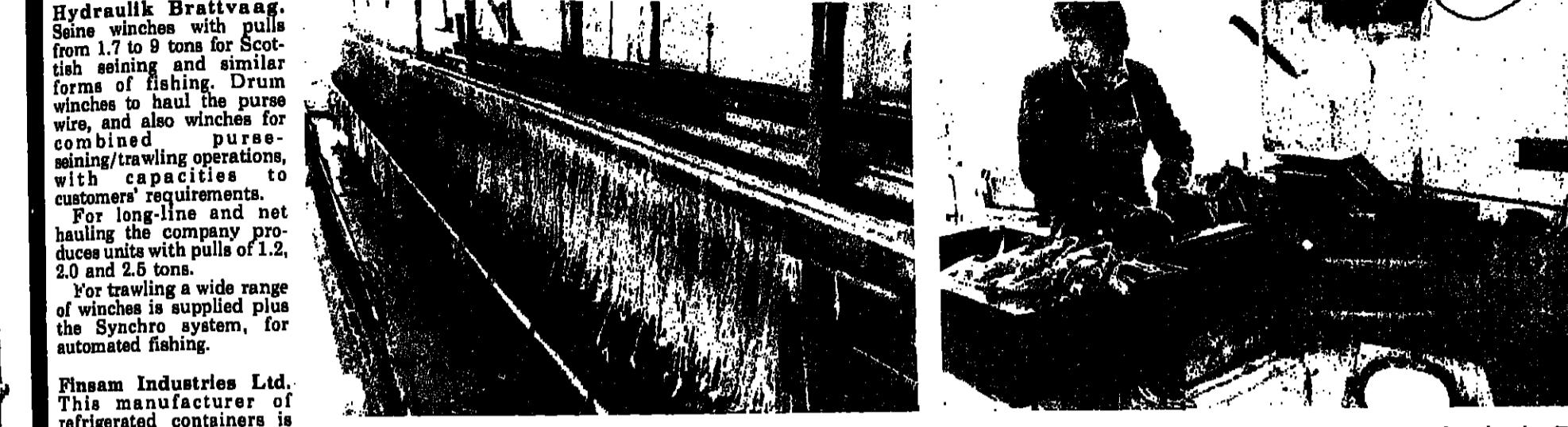
the world in the fields of:

echo sounders, sonars, trawl

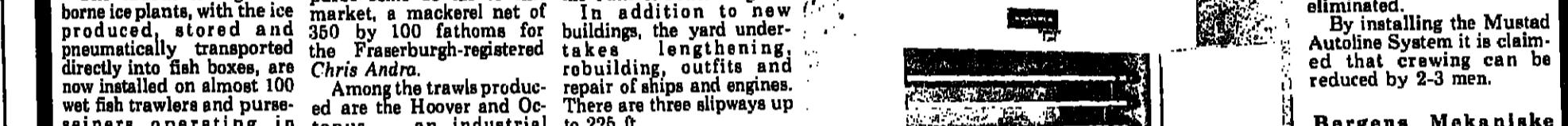
instrument systems and

navigation equipment. See

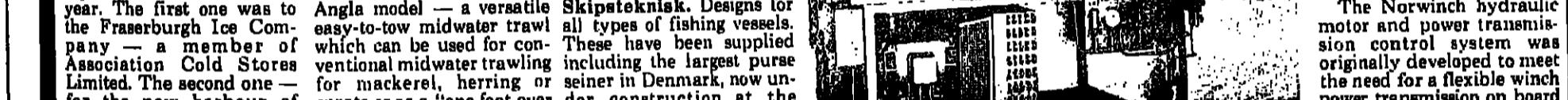
pages 20 and 21.



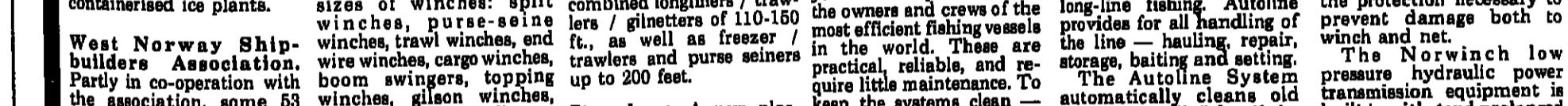
Longlining looks like heading for a revival and Norway's Mustad Autoline system has already been demonstrated to Scottish fishermen. Magazines hold the clips (left) while an operator (right) baits using whole fish. Below: plate freezer from Kvaerner Kulde.



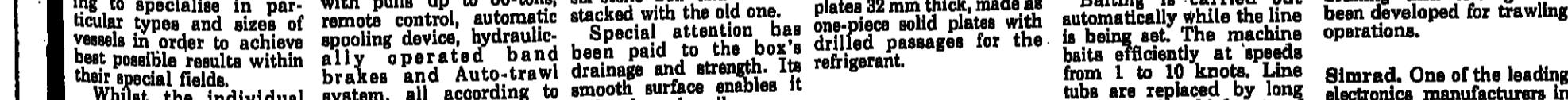
Lengths. Manual baiting and carrying of tubs are eliminated. By installing the Mustad Autoline System it is claimed that crewing can be reduced by 2-3 men.



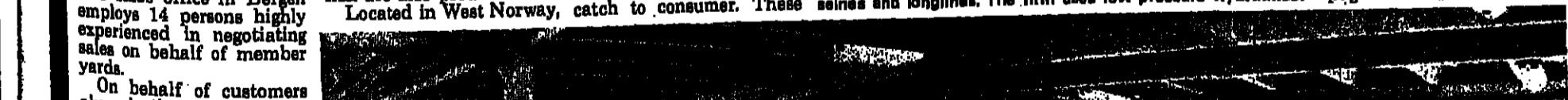
Bergens Mekaniske Verksted. Norwinch low pressure hydraulic deck machinery was introduced in 1946 and is now installed on more than 6,000 vessels. The Norwinch hydraulic motor and power transmission control system was originally developed to meet the need for a flexible winch power transmission on board fishing vessels. Norwegian fishing vessels in particular are regularly operating in rough seas, and in these conditions an hydraulic power transmission with pressure relief valve control provides the protection necessary to prevent damage both to winch and net.



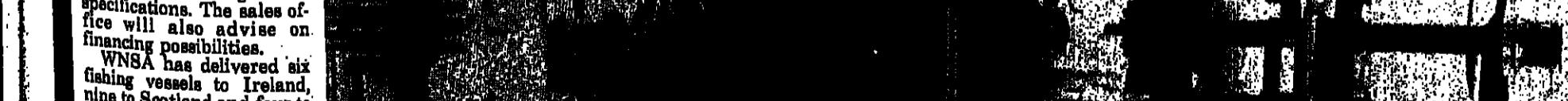
The Autoline System automatically cleans old bait and small fish off the hooks and arranges them in magazines ready for baiting. The crew carries out repairs while the lines are being hauled.



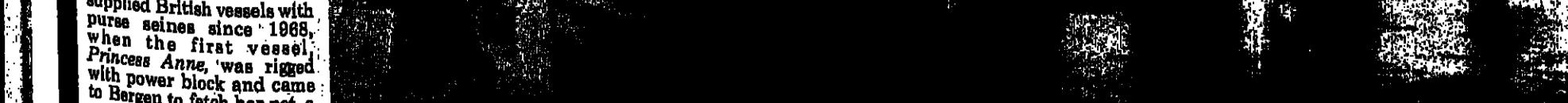
Hydraulic systems for braking and towing have been developed for trawling operations.



Simrad. One of the leading electronics manufacturers in the world in the fields of: echo sounders, sonars, trawl instrument systems and navigation equipment. See pages 20 and 21.



Norsenet. This firm has supplied British vessels with purse seiners since 1965, when the first vessel, *Princess Anne*, was rigged with power block and came to Bergen to fetch her net, a purse seine of 280 by 70 fathoms.

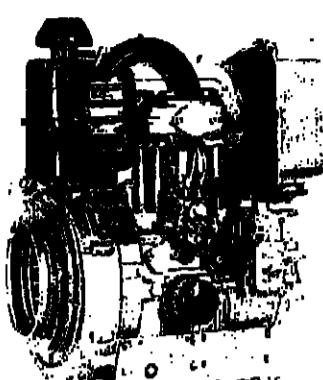


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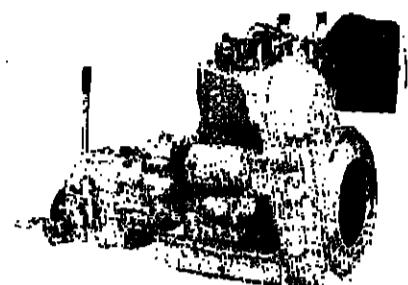
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CATCH '78

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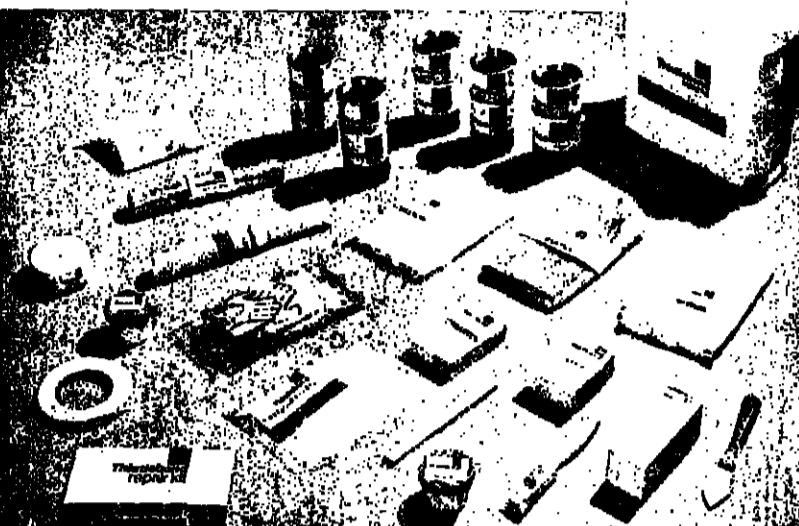
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IT'S ALL HAPPENING AT



PETERHEAD

THE LAST three months have seen tremendous activity in Peterhead and it is now the port where everything's happening. But there is a cloud on the horizon—falling catches.

The number of boats using the fish market this year looks like exceeding the 1977 figure of 400 as even more Scottish vessels keep switching to Peterhead from other ports.

The numbers have also been

swelled by at least half-a-dozen new vessels—and the white fish and shrimps there.

boats which they

replace remain on ser-

vice with the local fleet.

At least two Grimsby boats

are planning to make

Peterhead their base and,

during the last few weeks,

so severe that several catches

were held back for second

sales. A further 34 boats land-

some 30 or more Danish

vessels have been landing

in single tiers.

Although part of the

market came into use only a

couple of years ago, it is now

no longer able to take these

huge landings and so the Har-

bour Trustees have invited

tenders for the construction of

a further 200 ft. of market

which will be able to hold

another 2,000 boxes.

This will be a two-storey

building, unlike the

remainder of the fish market

structure, and the upper floor

will house offices.

Individual vessels are

catching less than they have

done in recent years.

Skipper Ian Sutherland of

Hopeman, whose 80ft. vessel

Kestrel was the highest ear-

ning Scottish seiner in

1976, told *Fishing News* that

there has been a marked scar-

city of fish this year on the

Bergen Bank. This is an im-

portant fishing area for the

Scottish fleet.

He said that an average

weekly catch for a larger

seiner is now about 250 boxes,

whereas three years ago it was

double that.

Another leading seine net

skipper, Peter Strachan of the

85 ft. *Stanhope III*, said that

catches have been so low on

the Bergen Bank this spring

that a number of boats

switched to other grounds.

He said that this year is the

first time that he had fished

other than on the Bergen

Bank, although he had now returned

there as catches seemed to be

improving a little.

Chairman of Peterhead

Harbour Trustees, John D.

Buchan, is particularly con-

cerned about the political

situation.

"Without a shadow of a

doubt", he said, "there is a

lack of adequate measures to

conserve fish.

"Loss of distant water

grounds has forced the big

trawlers into the areas work-

ed by the Scottish inshore

fleet and there are quite

definite signs of overfishing.

"Unless we get adequate

conservation measures the

North Sea will soon be as

empty of white fish as it is of

herring.

The fishermen are begin-

ning to despair as the

EEC's Common Fisheries

Policy will every be resolved,

or that our own Government

will ever do anything."

The market, with a frontage of 1,000 ft., can accomodate about 46 vessels for the first sale and its floor area of just short of 5,000 sq. yd. can hold 7,000 boxes laid out in single tiers.

PAIR TRAWLERS regularly out-fished the seine netters this year and several partnerships have landed total catches of 1,000 boxes and more.

They are able to work on the rougher ground where fish has been more plentiful — and they can also catch a greater percentage of the higher-swimming fish such as cod and coley.

In previous years pair trawling for white fish has been mainly adopted as a between-season activity by the herring and sprat trawlers. It saved skippers the extra expense of seine net gear.

But, in recent months, some of these vessels have spent much more time on white fish trawling and now even a number of top seine net skippers are turning to this method.

Early in May two leading Peterhead-based seine net specialists, skippers Alec Jack and Innes McPherson, began pair trawling with their 86 ft. boats *Acacia Wood* and *Supreme*.

PETERHEAD

More seiners are gearing up to switch to pair trawling should catches from the seine net grounds remain poor.

Pair trawls have also been ordered for the two new vessels *Kestrel* and *Sunbeam*, just completed for skippers Ian Sutherland of Hopeman and William Smith of Lossiemouth.

Both skippers have regularly been among the

boats have mainly concentrated on seine netting in recent years.

Pair trawls have also been ordered for the two new vessels *Kestrel* and *Sunbeam*, just completed for skippers Ian Sutherland of Hopeman and William Smith of Lossiemouth.

Both skippers have regularly been among the

highest earning seine net fishermen in Scotland with their previous vessels (also named *Kestrel* and *Sunbeam*).

The new 86 ft. long overall *Kestrel* has been built by the Campbeltown Shipyard. The 86 ft. wooden-hulled *Sunbeam* was delivered in May by the Richard Irvin yard in Peterhead (story and pictures of *Sunbeam* in next week's issue).

Skipper Innes McPherson of *Supreme* said that pair trawling seems to be a more economical method of fishing, as the trawls last longer than seine nets.

Pair trawling for white fish has been steadily growing in popularity among the Peterhead-based fleet during the last three years.

One or two partnerships tried it for a short while six or

then try the pair trawl together if necessary.

He said that, although fish is more plentiful on the hard ground in the spring, the situation could alter within the next few weeks. The seine netters may well start to pick up again when the fish settle to the cleaner bottom.

Skipper Innes McPherson of *Supreme* said that pair trawling seems to be a more economical method of fishing, as the trawls last longer than seine nets.

Pair trawling for white fish has been steadily growing in popularity among the Peterhead-based fleet during the last three years.

Results are satisfactory even though the majority of boats are still experimenting with methods of rigging and

June 8, 1978

seven years ago, but it did not really get going until 1976. Then, four pairs worked for a few weeks in the late spring and through the summer.

One pair — the 86 ft. ships *Morning Dawn* and *Unity* — carried on until late that year before moving south to the North Shields fishery.

Last year six local partnerships worked the pair trawl, including:

Morning Dawn and *Unity* (skippers David Morgan and John McLean).

Faithful II and *Upright II* (skippers Walter Milne and Arthur Buchan).

Constant Friend and *Starlight* (skippers Bruce Thain and Alec Baird).

Fairweather V and *Sunbeam* (skippers John Alec Buchan and John Buchan).

Seringe and *Sunder* (skippers John and William Morgan).

Shemara and *Starwest* (skippers Jim Pirie and George Collin).

Popular fishing grounds included Muckle Flugga, to the north of the Shetlands, the Bergen Bank and the Far Isle.

Results are satisfactory even though the majority of boats are still experimenting with methods of rigging and

June 9, 1978

FISHING NEWS

SAIT AT "CATCH 78"



(11) **Astromatic Gyro** — a video digital display of latitude and longitude with a time, date, speed and course module. No compass, chart or correction scales required and once initially set up will provide an accurate estimated position to within 1-2 nautical miles.

(12) **SKR 80 Gyro** — compass, fully solid state electronic gyro compass with no liquid, gears, mechanical linkage, tension wires providing a settling time of less than one hour and with built in testing equipment. Suitable for any vessel.

(13) **Auto Pilot AP7** — complete automatic steering system for use from magnetic or gyro compasses and can provide coupling to almost any type of steering system. It can be operated in the follow-up or non-follow-up electrical steering configuration and together with the SKR 80 or other suitable gyro, makes a complete steering system.

(14) **Auto Pilot AP30** — ideally suited to small craft up to eighty feet in length using hydraulic or aerofoil steering system and incorporates a compass sensor for steering from the boat's main steering compass.

(15) **Auto Pilot AP30** — ideally suited to small craft up to eighty feet in length using hydraulic or aerofoil steering system and incorporates a compass sensor for steering from the boat's main steering compass.

(16) **ONX10 radar** — a compact 10 inch fully solid state with the exception of the magnetron and coupled with its high performance and reliability is ideally suited for medium and small sized vessels.

(17) **47 V Fire Detection System**.

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(18) **XHB110A error correction system** for fast efficient error free and secure transmission and reception of messages and can be used with almost any single sideband transceiver.

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0894 577951

Liverpool
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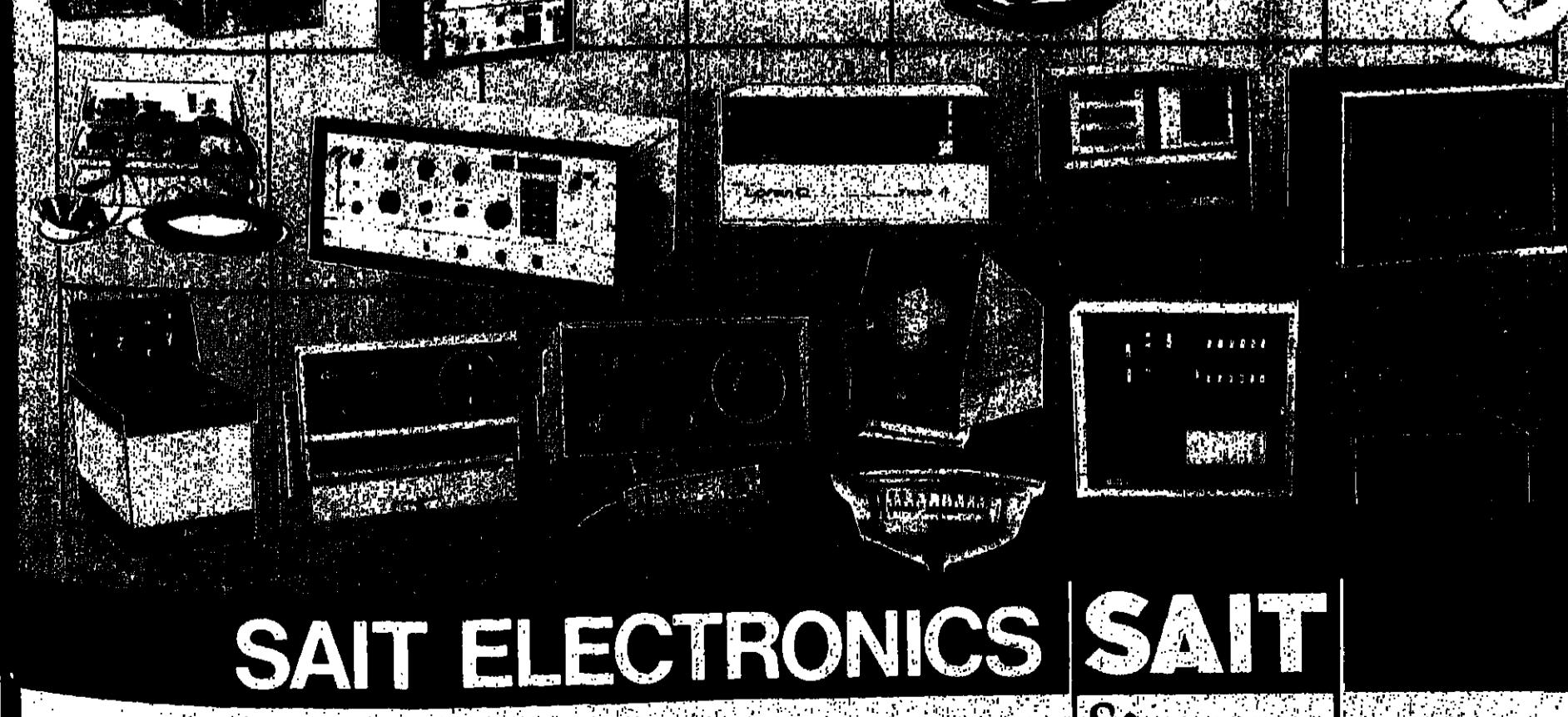
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Sparkling Star and Fairweather V started working as pair trawlers together in 1976. Their skippers, John Buchan and John Alec Buchan, have now built up a lot of experience.

From page 24
working the gear on the new fishing grounds.

By the middle of the year coley was earning twice what it was 12 months ago and so catches are now much more worthwhile.

One pair, *Morning Dawn* and *Unity*, continued white fish pair trawling throughout last winter to considerable effect. They landed catches of 1,000 boxes and more between them.

Quite early in the spring, *Shemara* came back from the North Shields sprat fishery and began to pair trawl in partnership with another Peterhead vessel, the 86 ft. *Golden Dawn* (Skipper Andrew Cowe). One of their early trips resulted in 1,233 boxes, which included 676 of cod.

Landings at Peterhead by white fish pair trawlers during the first four months of the year amounted to 17,849 cwt. worth £424,473. These figures are far ahead of the 6,197 cwt. valued at £122,588 put ashore during the same period in 1977.

By early May more partnerships had got going. Included were the former Fleetwood 86-footers *Lorenzo* and *Benvolio* which fish under their new skippers, Arthur Buchan and Peter Ritchie. (See page 63).

West coast

Sparkling Star and **Fairweather V** began the fishing after coming home from the west coast herring fishery. (*Fairweather* was fitted with a new net drum specially designed for handling white fish trawls. See right).

Faithful II came home from North Shields and has teamed up with a Fraserburgh vessel, the 86 ft. *Green Pastures* (Skipper George Ritchie), while *Acacia Wood* and *Supreme* took aboard their pair trawl early in May.

It is thought that at least 12 local partnerships, together with several more from other ports, could be pair trawling for white fish from Peterhead by mid-summer.

A PETERHEAD engineering firm is developing a sturdy range of net drums and winches to meet the heavy demands of the white fish pair trawlers.

Tecnor Engineering has introduced a net drum and the first has gone aboard the 86ft.

PETERHEAD
Peterhead vessel *Fairweather V* (Skipper John Alec Buchan). Others are being made for two more local boats.

Personnel from Tecnor have

spent a lot of time talking to the pair trawler skippers and have designed the drum to their requirements.

Fishermen asked for simple and robust equipment with large net capacity and good pulling power.

The Tecnor drum is of particularly heavy construction and

incorporates a gear drive on to a hydraulic motor which gives a pull of 15 tons.

A new range of winches suitable for white fish pair trawling is now on Tecnor's drawing board and these incorporate larger capacity warp drums plus the powerful line pulley fishermen specified.

Teenor was set up about one year ago when new management took over the Peterhead firm of A. F. Engineering (Scotland) Ltd.

Operating under managing director Dr. Bill Thain, and technical director Alec Keith, the new company is developing and making a range of hydraulic deck equipment and offers full service facilities.

The factory is ideally situated in Peterhead. Fishermen can walk in straight from the harbour.

The firm also offers comprehensive engineering and metal fabrication facilities and, earlier this year, carried out a major modification to the former Peterhead vessel *Aquarius*.

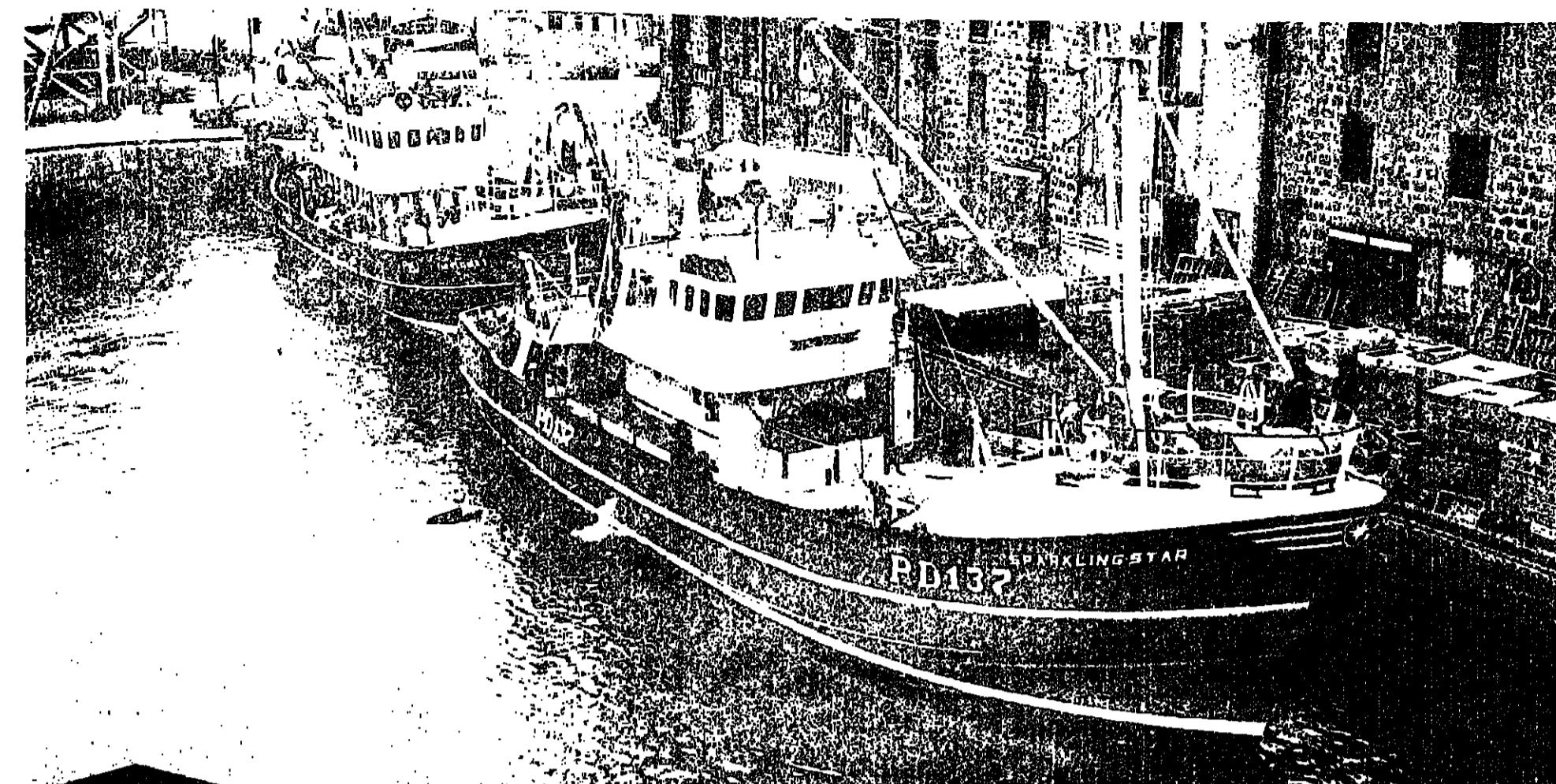
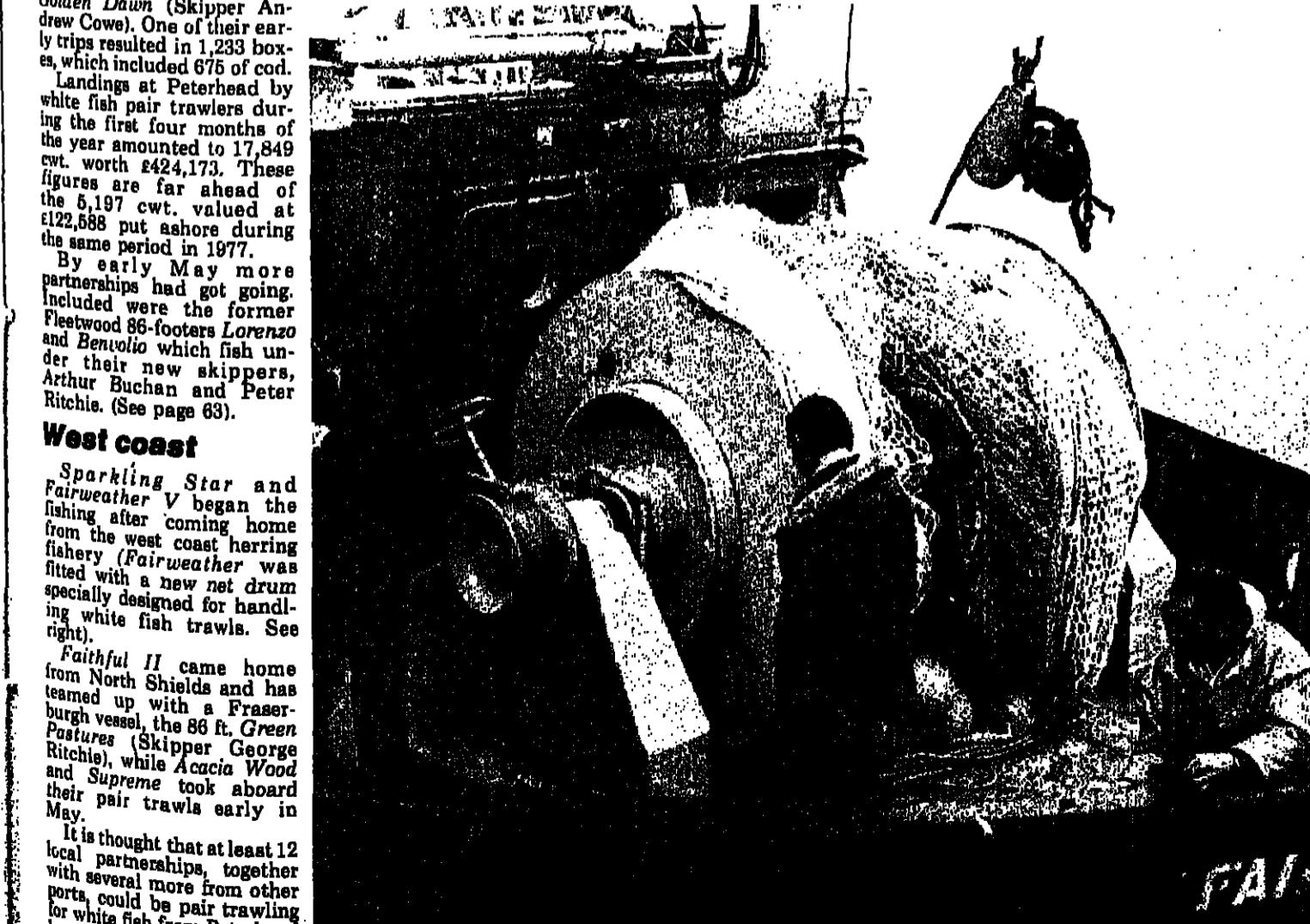
This 78ft. transom-sterned and wooden-hulled boat was built by J. and G. Forbes and Co. in 1970 for Skipper Jim Slaters. He now fishes with the 140ft. purse seiner *Saturn*.

Skipper Slater sold *Aquarius* to Skipper John Stewart of Elgin, who renamed her *Dauntless* and has had her equipped for seine netting.

Teenor fitted the vessel with a new Kelvin 500hp engine to turn a Henry Fleetwood propeller through a Reintjes reduction and reverse gearbox.

A two-drum set of seine rope reels of *Teenor*'s own manufacture was installed and, in addition, the vessel was fitted with an aluminium deckshelter.

Left: *Teenor*'s heavy-duty net drum specially developed for pair trawling. This 15-ton pull unit is seen aboard *Fairweather V*.

**Winches and net
drums for pairing**

From page 29

John McLean and David Morgan) in 1976.

These four-panel trawls are designed for the hard ground and were made from heavy courlone to withstand abrasion. Wing and foreonet meshes are 4 in. and the fishing circle is 520 meshes.

This year Mr Buchan has designed a white fish pair trawl for the 86 ft. steel vessel *Stanhope III* (Skipper Peter Strachan) which is to start white fish pair trawling for the first time.

The net will be suitable for two vessels each of 500 hp and, at Skipper Strachan's request, it will be larger than earlier models with a bigger opening.

Mesches on top wings and foreonet, and in the side panels, will measure 8 in. Those on the lower part of the net will be kept at 4 in. to give the necessary strength for working hard ground.

The side panels will be 60 meshes deep, while the ground-ropes rig will be composed of 50 ft. of Teal rubber bobbins flanked by rubber legs and all strung on wire.

All these Caley white fish pair trawls are fished with a similar arrangement of bridles and sweeps, the length of which varies according to the preference of the skipper. They are rigged with 11 in. floats.

Caley is agent for the Dutch net maker Apeldoornse Nettentafel whose nylon four-panel mid-water nets have been used with tremendous success by vessels pair trawling for white fish from Peterhead.

Fairweather V, *Faithful II*, *Morning Dawn*, *Seringa*, *Shemara*, *Sparkling Star*, *Sundari*, *Ugievale II* and *Unity* are the boats which have been using them.

Peterhead-based pair trawlers which switched to the fishery this year, or may start later on, are also equipped with these nets. These include *Acacia Wood*, *Benvalio*, *Golden Dawn*, *Lorenzo*, *Supreme*, *Challenger II*, *Nordic Prince*, *Stanhope III*, *Loch Kildonan* and the newly-built *Kestrel* and *Sunbeam*.

Similar nets have also been sent to several Firth of Forth vessels: the 67 ft. sister-ships *Nova Spero* and *Stardust II* owned by skippers Walter and David Fairnie.

Recently these two grossed 26,481 and 25,755, respectively, at North Shields after a three-day trip.

Designed for working over clean ground, these rectangular-opening nets are made in different sizes to suit individual vessels.

The majority are of dual-purpose design so that, by changing the bag, they are equally suitable for herring.

Vessels equipped with the dual purpose net include *Unity* and *Morning Dawn*, *Benvalio* and *Lorenzo*, also *Challenger II*.

All these boats, which have engines in the region of 800 to 700 hp, have a net which measures 74 m. on headline and footrope and 40 m. on the side panels. Mesches on wings and forenets are 24 in.

Originally the Apeldoorn nets were fished using two warps per boat, but the skippers have perfected a technique whereby each vessel tows with only one warp.

An export trade in Scottish seine nets is developing, a number having been sent to Canada during the last 18 months or so.

Caley seines are currently in use aboard the 86 ft. Peterhead vessel *Junoce IV* which is in Newfoundland to teach local fishermen Scottish fishing methods.



PETERHEAD MORNING STAR HAS 'STRETCH'

WORK IS now well underway on lengthening the Peterhead purse seiner *Morning Star*. She is also being fitted with refrigerated sea water tanks.

The lengthening job is being carried out in the dry-dock by Wood and Davidson Ltd. which 'stretched' the local purse seiner *Lunar Bow* four years ago.

Morning Star was put in the dock and cut in half. The bow section was pulled forward 20 ft.

Each of three tanks and the appropriate sections of hull are being pre-fabricated as separate units before being put in position.

Once the new midships section is in place, expanded polyurethane foam will be pumped between the outer walls of the tanks and the boat's sides, deckhead and bulkheads to form the insulation.

Morning Star is being fitted with a Kvaerner model 92/6Ee cooling plant.

In addition, a steel shelterdeck extending from whaleback to deckhouse is to be fitted and the wheelhouse is to be raised. The hatches for the RSW tanks will be carried up to shelterdeck level and will have aluminium covers.

Other modifications will include placing the pursing gallows on the shelterdeck.

The lengthening was designed by the Napier Co. (Aberdeen) and agent for Kvaerner of Norway is Scandinavian Marine Sales Ltd. of Glasgow.

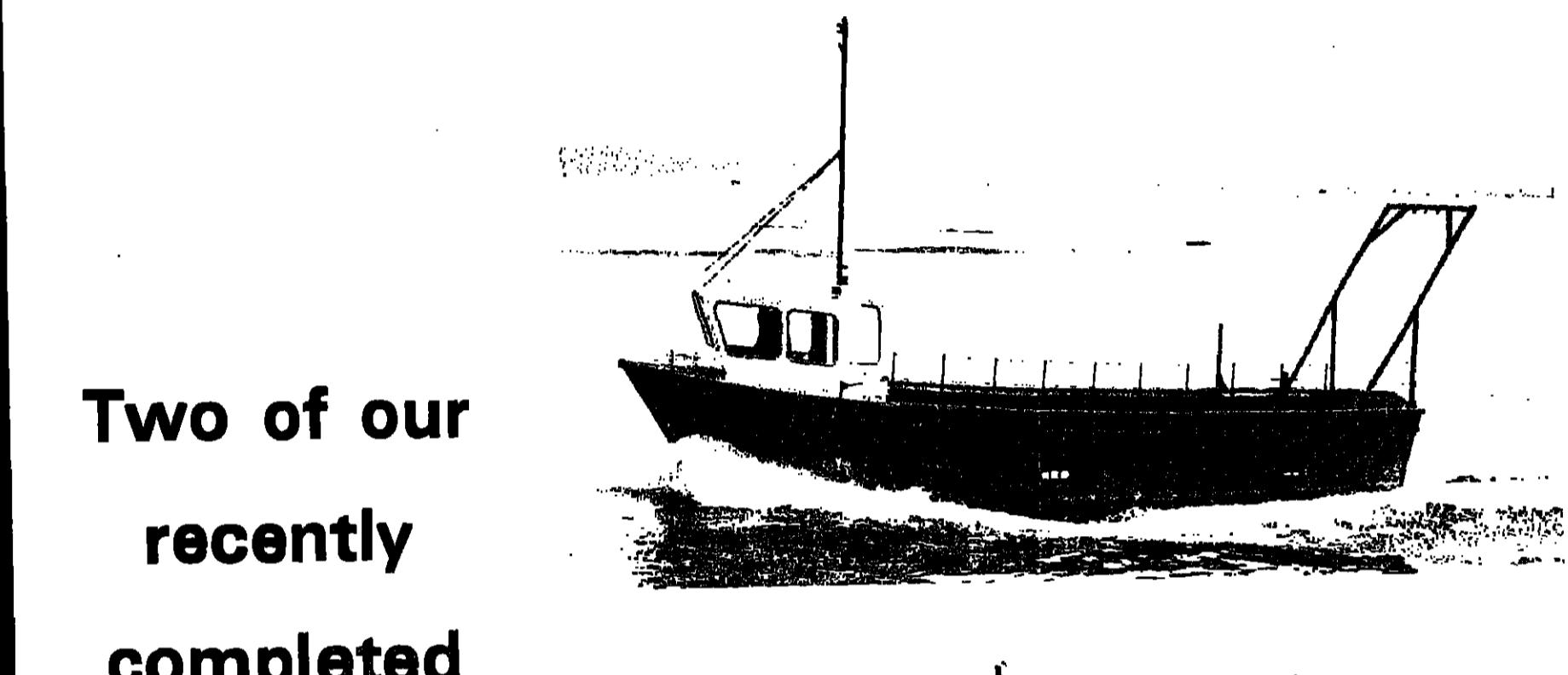
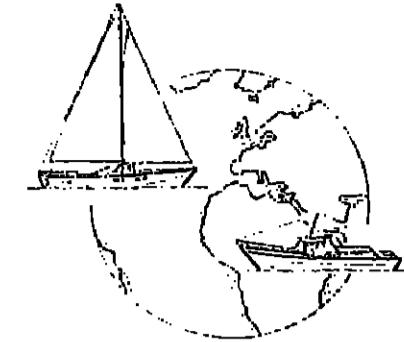
Morning Star, whose lines were designed by Tynedraft

Above: *Morning Star* in half with her bow section pulled 20 ft. forward for the tanks to be inserted.

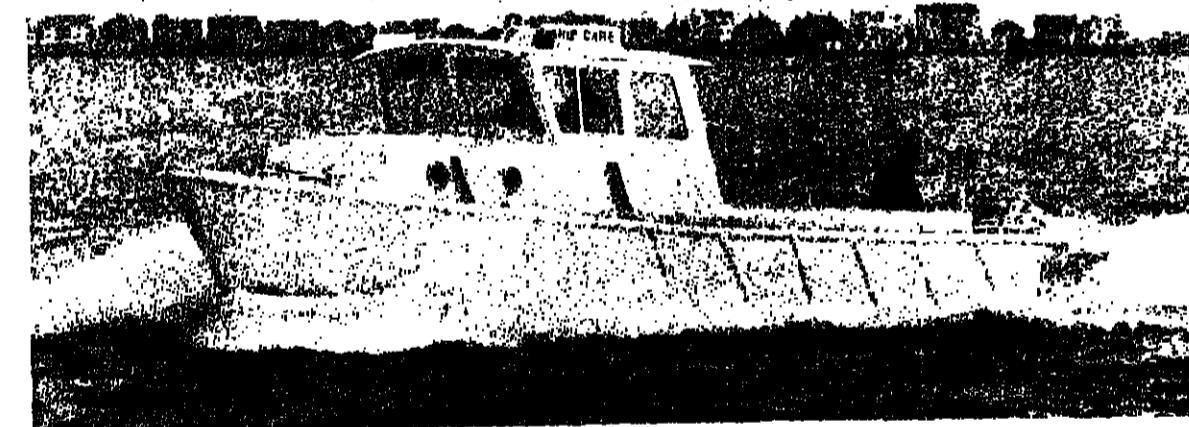
Below: two of the three RSW tanks in position on *Morning Star*. The work is being carried out at Peterhead drydock.



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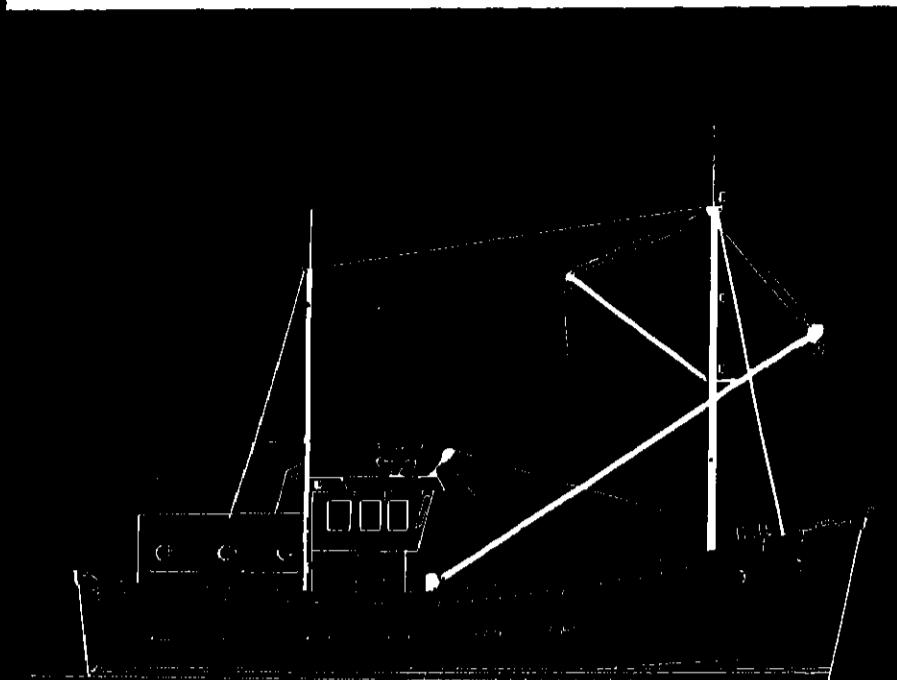
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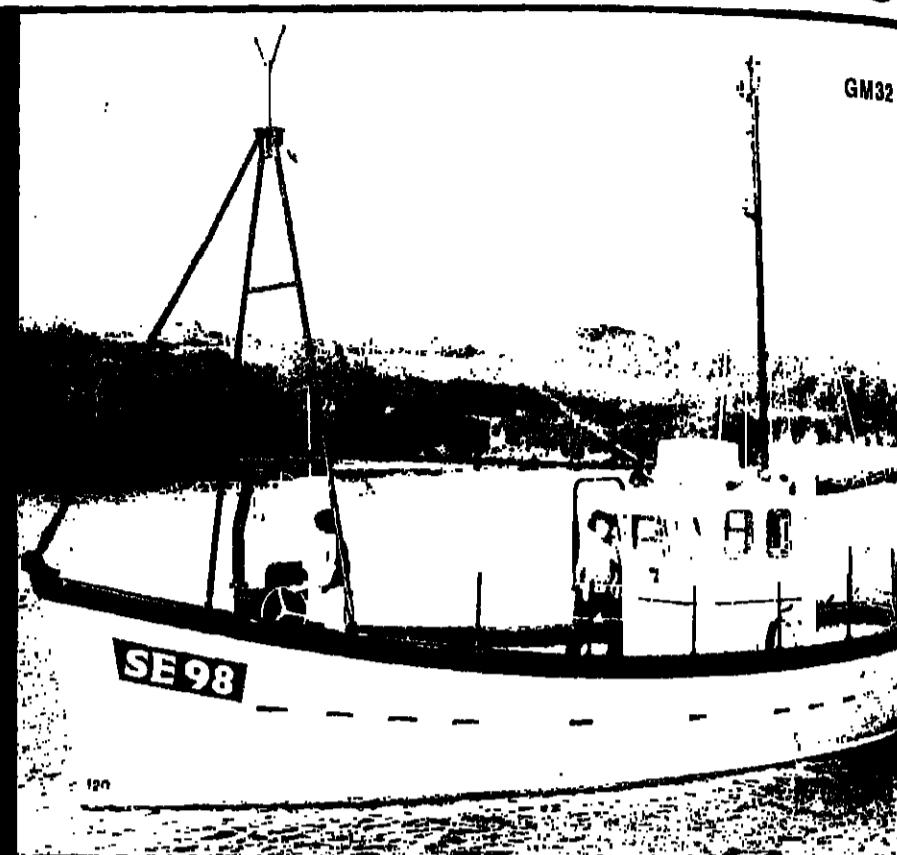
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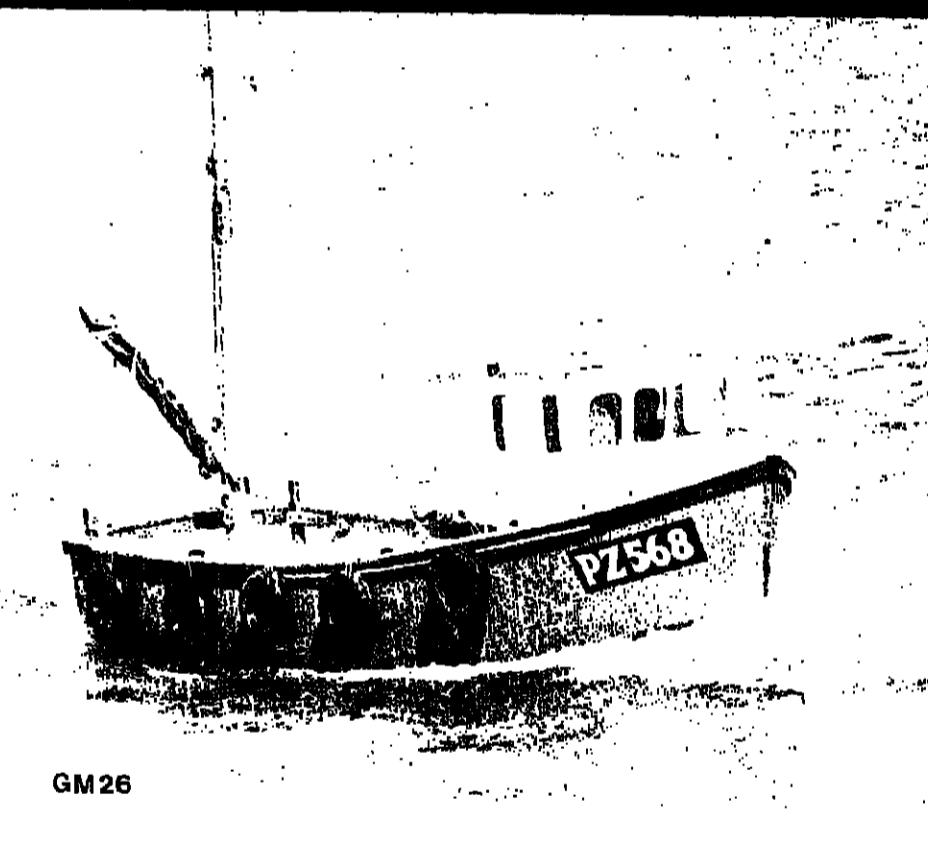
CYGNUS WORKBOATS



GM43, Double rigged prawn Trawler

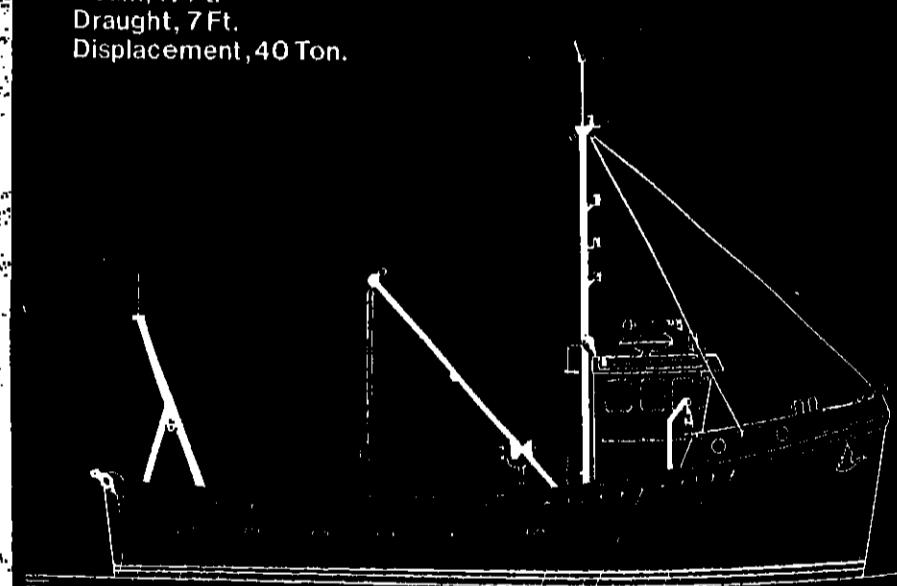


GM32



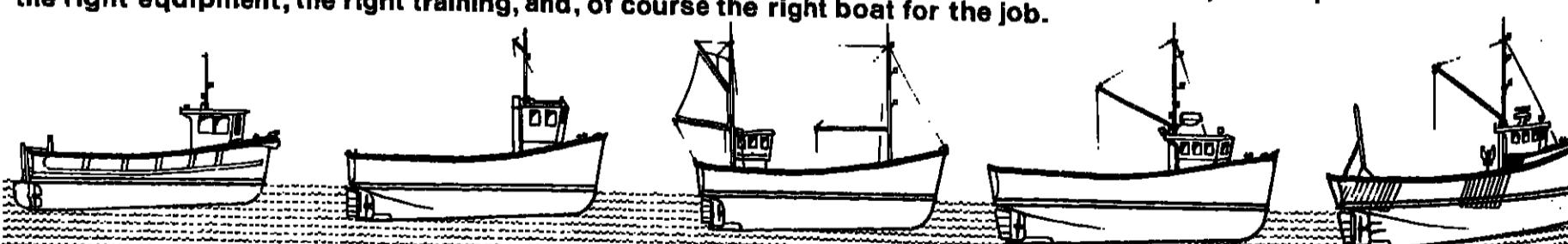
GM 26

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Beam, 17 Ft.
Draught, 7 Ft.
Displacement, 40 Ton.



GM43, Forward wheelhouse stern Trawler

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PETERHEAD

Longer Accord has RSW system



BUILDER FITS NEW MIDSHIP SECTION

Accord (top and below) is now over 100 ft. long. She is seen (inset) at 88 ft. long when she had just been built by Hakvoort.

Accord (top and below) is now over 100 ft. long. She is seen (inset) at 88 ft. long when she had just been built by Hakvoort.

ONE OF the increasing number of Scottish vessels being lengthened and fitted with refrigerated seawater (RSW) tanks is the Peterhead multi-purpose boat Accord.

The work was carried out by the K. Hakvoort yard in Holland and also entailed fitting the vessel with side thrusters, a more powerful engine and new winches.

At the time of her building at the Hakvoort yard in 1970 Accord was one of the more unusual vessels to join the Scottish fleet.

Skipper James Duthie had her

designed and equipped to work as a stern trawler, pair trawler, purse seiner or fly-dragging seiner with

emphasis on quality rather than quantity in the herring and

safety and ease of working for the crew.

Of stern trawler layout with the

engine room aft and fish room

amidships, Accord had an overall

length of 88 ft. and a beam of 24 ft.

She was powered by a Caterpillar

engine of 585 hp.

She was designed to work a variety

of fishing methods, but spent

much of the following seven years

pair trawling for herring.

Skipper Duthie was always con-

cerned to land herring in as good a

condition as possible and, at one

stage, used chilled seawater con-

tainers in which fish could be

transported overland to the

processor.

However, with the growing

emphasis on quality rather than

quantity in the herring and

equal efficiency, and to provide

mackerel fisheries, it has become evident that RSW tanks are more effective than chilled seawater systems.

Accord has, therefore, been modified in line with these developments and she spent a short time purse seining for mackerel off south-west England using the tanks.

The vessel was cut in half

amidships and a new 20 ft. section

with three insulated tanks was in-

serted.

Promac of Holland made and

supplied the fully-automatic

refrigeration plant which is de-

signed to chill 40 cu.m. of seawater from

12 degrees C. down to 0 degrees C.

in four hours.

It uses a seawater cooler of a new

design, incorporating aluminium

brass pipes with a diameter of over

42 mm. The pipe plates are made from the long life material Inox-eder.

The boat's electrical system has been up-graded to 220 V a.c. and the compressor for the refrigeration plant is driven from a 40 hp electric motor.

Accord has also been re-powered by a Caterpillar D388B engine developing 860 hp at 1,225 rpm. It turns a Pay and Brinck controllable pitch propeller through a P. and B. gearbox of 3.9:1 reduction ratio.

Two new Caterpillar auxiliary engines have been fitted: the larger 124 hp unit drives a Newage Stamford 130 kVA 220 V alternator, whilst the smaller 48 hp engine provides power for a Newage Stamford 220 V alternator of 60 kVA.

Other new equipment includes Brunvoll side thrusters, Karmoy main and auxiliary winches and a Karmoy fish pump.

Hydraulic power for the thrusters, winches and fish pump, and for the existing Rapp X-2 power block, is provided by Vickers pumps.

New instruments in the wheelhouse include C-Tech Omni Sonar, 'Sailor' T128 R105 radio telephone and a RSW tank temperature indicator.

LOCHIN MARINE

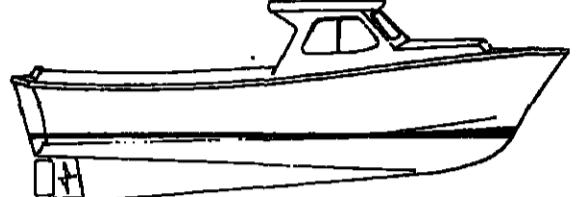
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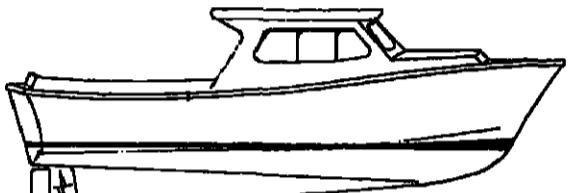
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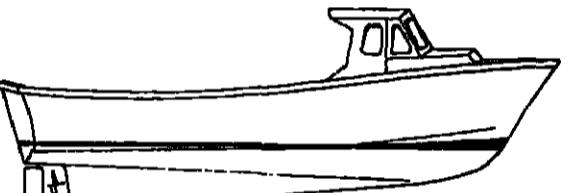
Standard Version



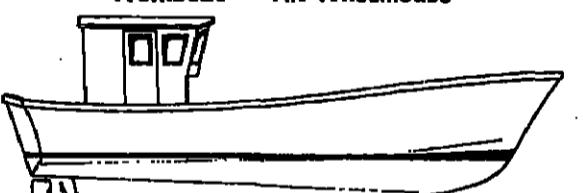
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Workboat — Fwd. Wheelhouse



Workboat — Aft Wheelhouse



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BUCKIE'S 'BOUNTEOUS'

THE 56ft. stern trawler *Bounteous* owned by Buckie skipper, Edward Phimister and his partners, is the ninth vessel in a very popular series of small stern draggers.

Herd and Mackenzie of Buckie built these vessels starting with *Unity* (BCK67) in 1972.

These handy vessels, of double-chine hull form, have lent themselves ideally to bottom and mid-water trawling — and a number regularly go to the winter sprat fisheries in the Moray Firth and off north-east England.

Bounteous, which is a member of the Fishermen's Mutual Association (Buckie) Ltd., has started her career single-boat trawling for white fish from Peterhead.

With a beam of 18ft. 6in. and tonnage of under 26, the boat has a transom stern and rated soft hose stem. Below deck she is sub-divided from forward into engine room, cabin and fishroom.

Power is provided by a six-cylinder Kelvin engine which develops 310 shp at 1,200 rpm. The unit is coupled through a Kelvin 3:1 reduction and reverse gearbox to a Friedenthal fixed-pitch propeller housed in a Kort nozzle.

The Dowty variable delivery hydraulic pump for the trawl winch, and a hydraulic pump unit for power block and cargo winch, are driven from the fore-end of the engine through a Sutherland clutch operated step-up gearbox.

Two 3.6 kW 24V Transmotor generators, a Gilbert Gilke and Gordon 280/700 Gilmec bilge and general service pump, and the steering gear pump, are also driven from the main engine. An AC7 alternator and a hydraulic pump for the cargo

Bounteous has a Sutherland trawl winch at the after side of the super-structure.

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Bounteous has a Sutherland trawl winch at the after side of the super-structure.

Two tanks in the stern hold 1,800 gallons of fuel oil, whilst fresh water is carried below the fishroom.

The combined galley and messroom, located in the super-structure, is fitted with a Kempasafe oil-fired cooker and a small Electrolux fridge.

A toilet is housed in the forward end of the super-structure and bunks for six are positioned in the cabin of the engine room.

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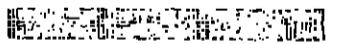
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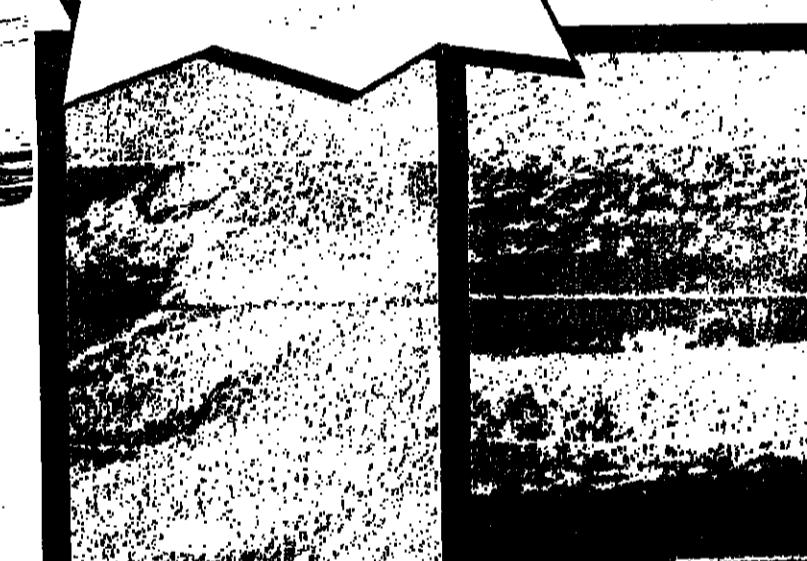


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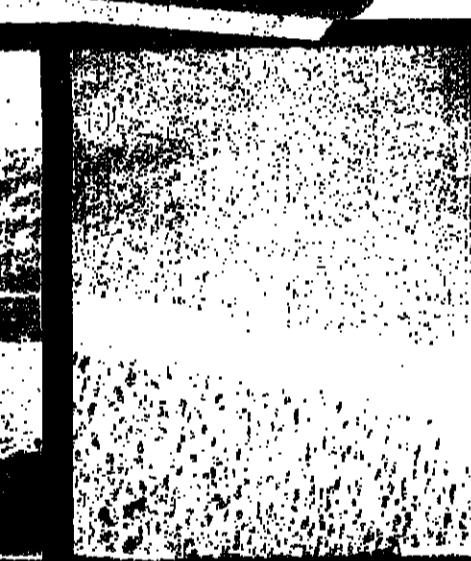
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four equal bands by white horizontal lines on the display,
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Soft seabed bottom. Fish close
to seabed and rising into plankton.
Dense shoal in mid-water. White
transverse lines are depth marker.
green line is variable marker. Time
marker is displayed as white
dashes at bottom of screen.



A harder bottom. A dense shoal
close to the seabed is easily
distinguishable as is a shallow
scattering layer. Depth marker and
the variable marker are displayed.



Small shoal of fish in plankton near
the seabed. Depth and variable
markers are switched off.

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'SPEYSIDE' STARTS NEW ERA FOR ABERDEEN

ABERDEEN trawler owners are now being forced to start a rebuilding programme as a high proportion of the fleet is nearing the end of its economic life. At least three companies are already having new boats built and others are expected to place orders with British yards in the near future.

The loss of the deep water grounds and uncertainties over the Common Fisheries Policy have persuaded owners that smaller stern trawlers in the 80 to 100 ft. class will be most suitable for the port. These trawlers, equipped for bottom and mid-water work, will be able to fish for a variety of species within the EEC limits and have ample seaworthiness to cope with bad seas.

The first vessel in this new class is the 86 ft. *Speyside*. She arrived at Aberdeen in April and is now bottom trawling for white fish off the west coast of Scotland. She has been built in Lowestoft by Richards (Shipbuilders) Ltd. for Skipper Peter Simpson of

'Deepsea'
boat to work in EEC zone

NEW ERA

FOR ABERDEEN

Buckie and others. Her partners of the Moray Firth, *Speyside* is managed and part-owned by the Spindale Fishing Co. of Aberdeen and it is company policy to participate in vessel ownership with skippers and crews.

A sister-ship, to be named *River Dee*, will be delivered by Richards in the summer to another well known skipper, William Wilson and his son James, who sails as mate

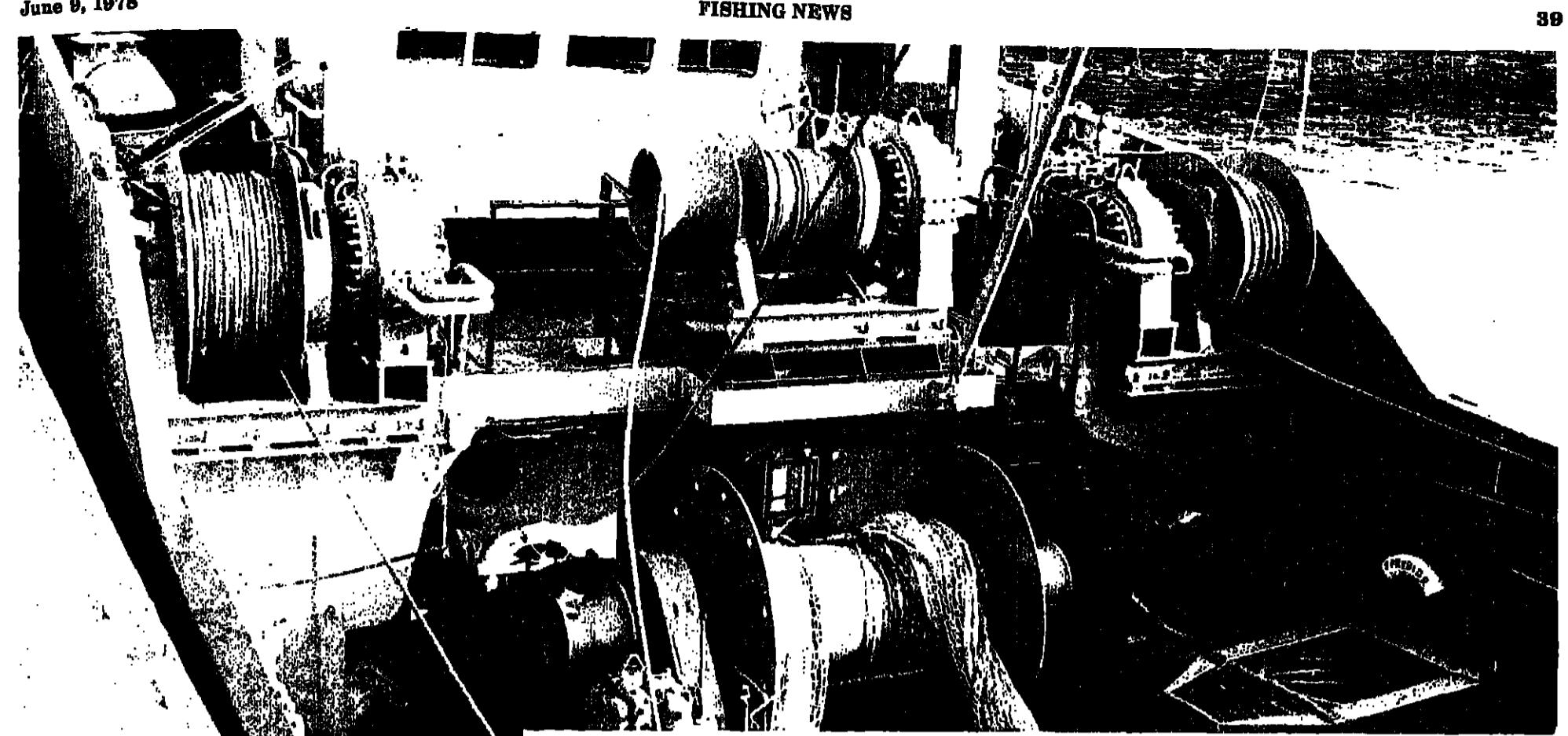
aboard *Speyside*, own about 50 per cent of the shares in the vessel which was built at a cost of £750,000. *Speyside*'s crew of nine almost all come from the Buckie and Aberdeen areas.

Skipper Simpson and his crew have been designed to give more space on deck and in the fishroom. It also gives a high standard of stability and seaworthiness in all conditions.

One of the more unusual features of *Speyside* is her ample 25ft. 6 in. beam which

has been designed to give more space on deck and in the fishroom. It also gives a high standard of stability and seaworthiness in all conditions.

Deck layout has been planned with a view to safety and ease of working. Gear



handling machinery includes *Speyside's* Norwinch gear-handling machinery showing the split trawl winches and a net drum.

Split trawl winches, sited on the after end of the fo'c'sle deck, keep the warps well clear of the trawl deck and the vessel is the first in the UK fitted with the new Norwinch automatic trawl control system to give a fair measure of automation when working the trawl.

Speyside, built to Lloyds + 100 AI Stern Trawler — LMC + UMS Classification, has an overall length of 26.26 m. (86 ft.); registered length, 24.24 m. (79 ft. 6 in.); moulded beam, 7.80 m. (26 ft. 6 in.); and moulded depth, 3.80 m. (12 ft. 6 in.).

Under Part 1 Registry she has a gross tonnage of 194.40 and net tonnage of 64.62. She has been built throughout of Lloyds-tested mild steel and complies with all requirements of the Department of Trade and White Fish Authority.

All steel plates were shot blasted and primed with Nuplate Primer 'A' prior to fabrication and scantlings are ten per cent above Lloyds' minimum requirements.

The vessel is of round bilge form and has a raked bar stern and transom stern. Her underdeck is sub-divided from forward into forepeak, engine room, fishroom, net store and steering gear compartment.

Some 40 tonnes of fuel oil are carried in the double bottom below the fishroom and in tanks at the stern, while 12 tonnes of fresh water are carried in wing tanks in the engine room.

Water ballast tanks are fitted in the stern to enable both the draft and trim to be controlled within fairly wide

Turn to page 40

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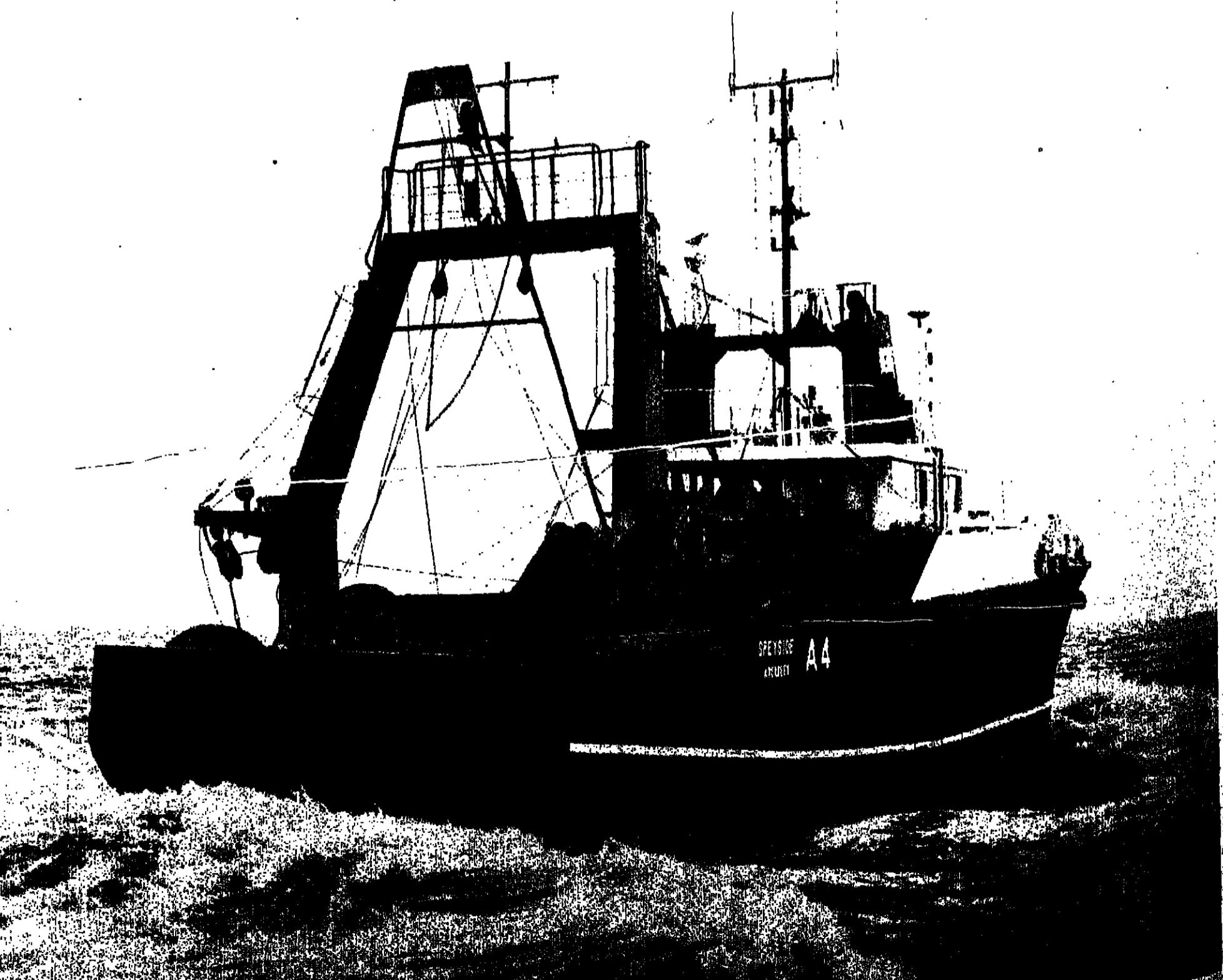
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SPEYSIDE

From page 39

and general service pump, Worthington Simpson air compressor, Megator Compak fresh water and sea water pressure sets, Worthington Simpson fuel oil transfer pump, Dowty standby pump for the main gearbox, two Norwinch auxiliary hydraulic pumps for the deck machinery and the steering gear pump.

L.E.C. Marine Ltd. of Lowestoft supplied the deadfront-type main switchboard and also carried out the electrical installation. The electrical system is supplied from the two diesel-driven alternators, only one of which can be in use at a time.

Power circuits are fed from the 440 V, three phase, 50 Hz supply whilst a 230 V, single phase, 50 Hz circuit feeds lighting systems, etc. The 24 V batteries are charged via a transformer rectifier from the 230V supply.

Lube oil and hydraulic oil tanks each of 100-gallon capacity are carried in the engine room.

All the low pressure hydraulic deck machinery is of Norwinch manufacture. Each split trawl winch has capacity for 600 fathoms of 24 in. circ. wire and is fitted with Lebus spooling equipment. Hauling speed can be steplessly controlled from zero to maximum and the winches have two speed and power ranges.

Each winch is designed to have the following duties:

Empty barrel
12.7 tons at a hauling speed of 0.19 m/min.

5.1 tons at a hauling speed of 0.38 m/min.

Mid barrel

4.8 tons at a hauling speed of 0.50 m/min.

1.9 tons at a hauling speed of 0.100 m/min.

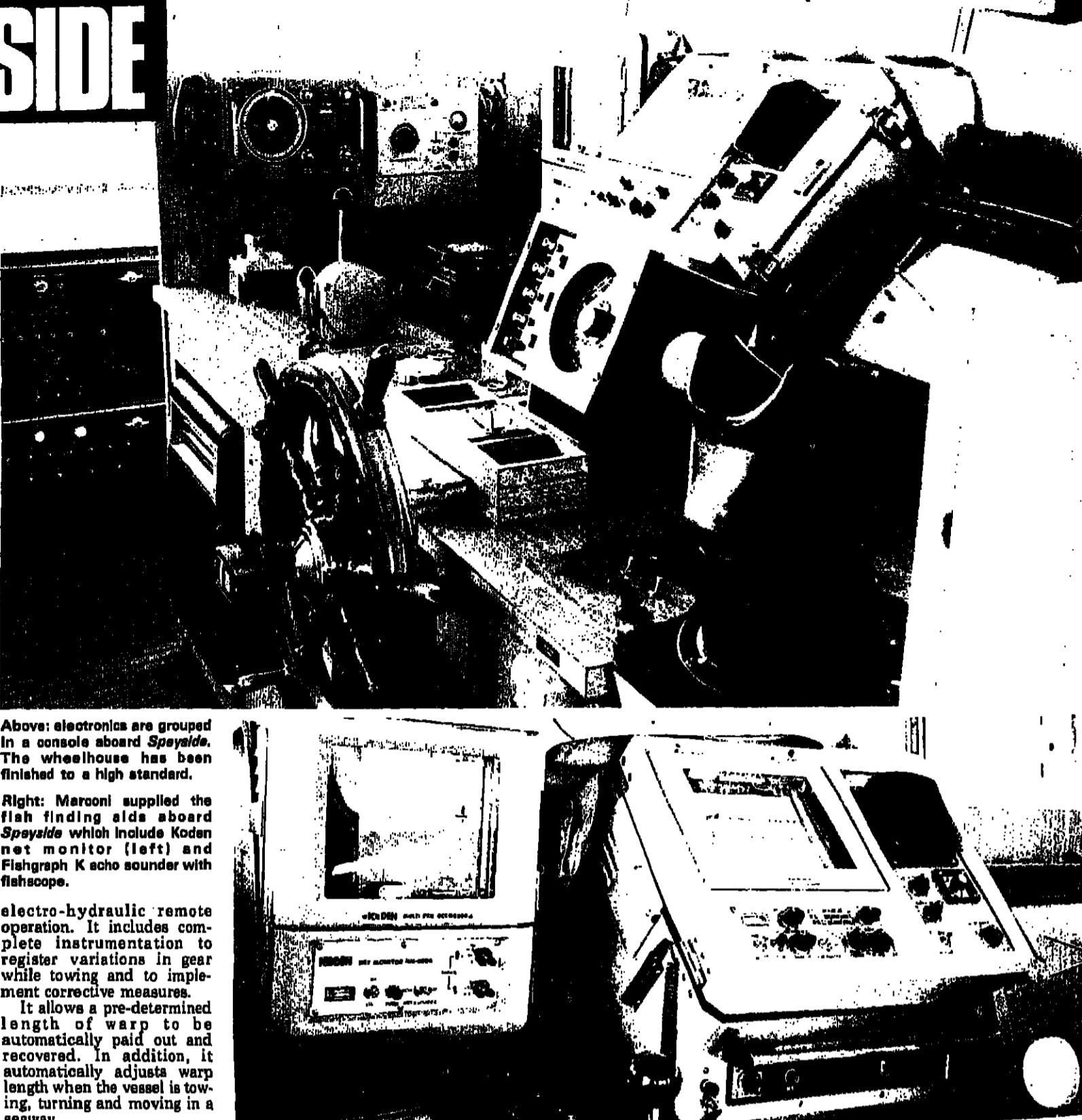
Full barrel

3.0 tons at a hauling speed of 0.80 m/min.

1.2 tons at a hauling speed of 0.180 m/min.

All functions of the trawl winches can be controlled from a console in the after end of the wheelhouse, but speed and direction plus variable braking can also be effected locally.

Speyside's Norwinch automatic trawl control system is arranged for



Above: electronics are grouped in a console aboard *Speyside*. The wheelhouse has been finished to a high standard.

Right: Marconi supplied the fish finding aids aboard *Speyside* which include Kodan net monitor (left) and Fishgraph K echo sounder with fishscope.

electro-hydraulic remote operation. It includes complete instrumentation to register variations in gear while towing and to implement corrective measures.

It allows a pre-determined length of warp to be automatically paid out and recovered. In addition, it automatically adjusts warp length when the vessel is towing, turning and moving in a seaway.

This will provide a more even passage for the gear through the water to retain the correct net geometry.

If the net catches on an obstruction, warp tension will increase to a pre-set maximum and then the winches will pay out warp and sound an alarm.

The net drum, located on

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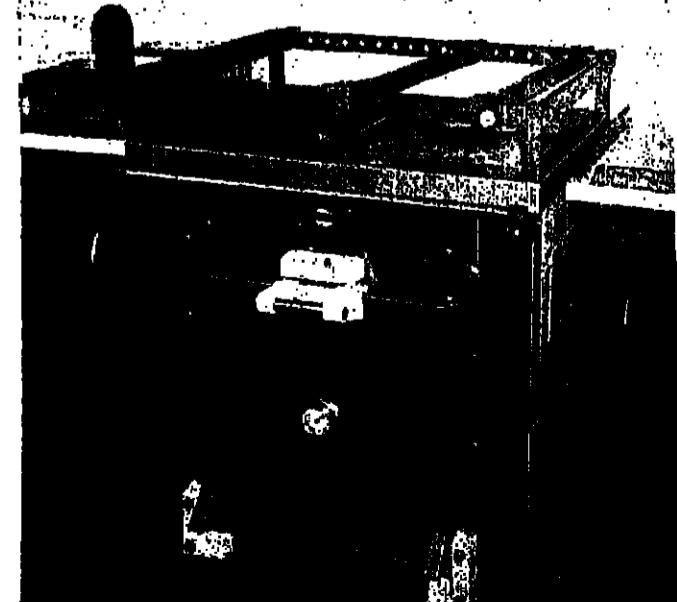
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SPEYSIDE



Above: *Speyside* soon after her arrival at her home port of Aberdeen. Her skipper and his son own part of this new-class boat.

Scots hull taken over by Norway

AN 85 FT. steel hull which was tied-up in Aberdeen for some time has now been fitted out as a side trawler. She is fishing under Norwegian owners.

The vessel, originally ordered by Fraserburgh owners from the Dundee yard of Smith and Hutton, was to be named *Honey Dew*. Her hull was built by the Middlesbrough yard of Tees Marine Services under subcontract to Smith and Hutton.

While the hull was in Dundee waiting to be fitted out the yard got into financial difficulties and shut down in 1975. Sometime later the hull of *Honey Dew* was towed to Aberdeen to await a decision on its future.

Eventually the owners decided to pull out of the venture and the hull, together with main and auxiliary engines and several other

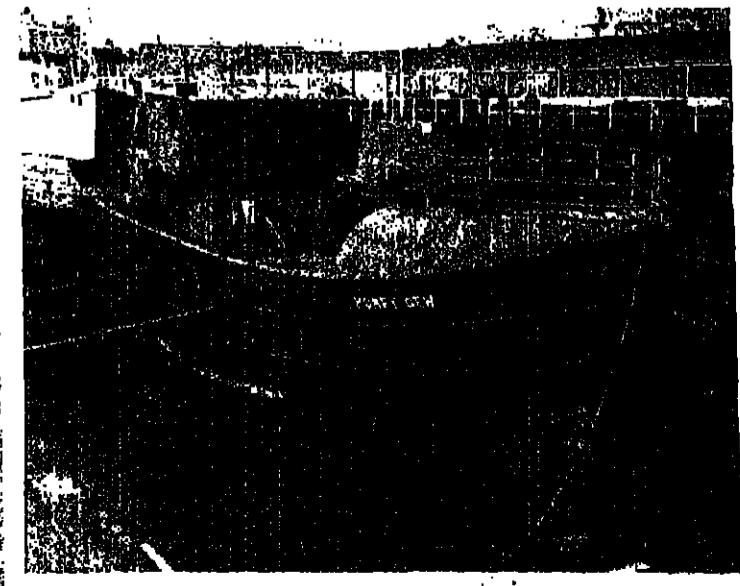
items of equipment, was sold to Norwegian owners.

The vessel, renamed *Taialvag*, has been completed as a side trawler by the yard of Rabben Mek Verksted for Messrs Ole N. Midvikt & Soner and is now fishing in the North Sea.

Her beam is 22 ft. and the vessel has a transom stern and is powered by a Caterpillar D348 engine of 725 hp. This drives a controllable pitch propeller through a P. and B. reduction gearbox.

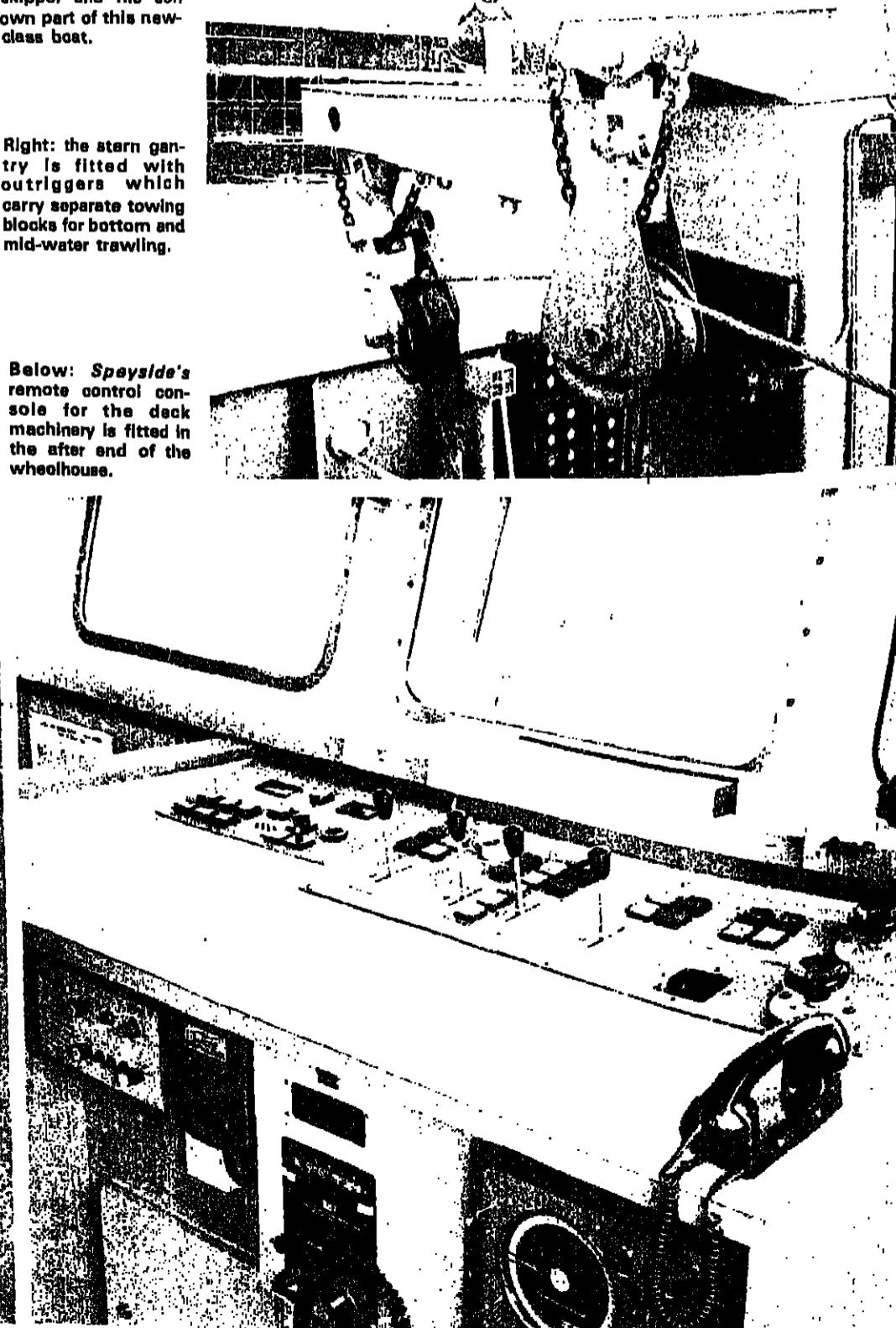
Two Ford auxiliary engines are fitted and gear-handling machinery includes Karmoy winches. Elco and Kelvin Hughes fish finders are fitted in the wheelhouse.

Honey Dew seen in drydock at Dundee prior to the collapse of the Smith and Hutton yard. She is now Norwegian owned.



Right: the stern gantry is fitted with outriggers which carry separate towing blocks for bottom and mid-water trawling.

Below: *Speyside*'s remote control console for the deck machinery is fitted in the after end of the wheelhouse.



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THE SCOTTISH fishing industry enjoyed a long and close association with East Anglian fisheries. This extended back to about the middle of the last century. Numerous flies, followed by the zulus — when they were initially introduced in 1879 — made the annual voyage to join in the 'Home Fishing', operating from Yarmouth and Lowestoft. It is impossible to do full justice concerning their activities in eastern waters in one brief article but, as much has already been written concerning the sail fishing vessels based on the twin Anglian ports, this article by L. W. HAWKINS concentrates on the defunct Scottish steam herring drifter and the motor fishing vessel, still happily with us.



Scots drifters steaming into Yarmouth over half-a-century ago to start the 'Home Fishing' herring season. Hundreds of boats made the trip until the stocks ran down.

THE SCOTS introduced steam power for line and drift net fishing vessels to the English east coast. Many fine examples were built during the last two decades of the nineteenth century.

The application of steam to line and net fishing vessels began in Scotland about 1887, when a boat built by M'Kenzie at Lower Pulteney Town, Wick, was put into service. She was named George Lough, after the MP for Wick Burgh.

On her first trip she took a force of militia to Fort George. What success she met with as a fishing vessel was not recorded at the time, but no doubt the much valuable experience gained was later put to good use.

A brief note in Peter F. Anstruther's book *Fishing Boats and Fishermen of the East Coast of Scotland* mentions a steam

fishery vessel being built at Aberdeen in 1871. Unfortunately no further details were noted, but she may have been a conversion to an existing hull.

An early attempt to apply steam machinery to a fishing boat was made about 1875 at Fraserburgh, but, two years later, a young man named David Allen built *Onward* at Leith which was fitted with 16 hp machinery. She was 55ft. on the keel and is reputed to have been the first true steam drifter. Registered in December of the same year as LH 880, her owners were the Forth Steam Fishing Co.

We do not have to look very far to find the cause of it all. On February 17, 1896, the Great Grimsby Ice Co. disposed of its fleet to Hewett for £38,000.

The vessels involved consisted of five steam carriers and 85 smacks. This large fleet began to arrive at Yarmouth over the next couple of months.

Most of the smacks were in need of repair to leaking hulls. The Port and Haven authorities made valiant efforts to keep as much mooring space available as possible — some of the older smacks being towed up to Breydon Water and moored by the main channel to await disposal.

A good autumn fishing followed with a total of 19,250 lasts of herring landed during the year. During the peak period of the fishery 161 Scottish boats were operating.

Collisions in the Yare were very frequent due to the congested conditions.

In 1897, 24 masters of some of the firms and smacks were prosecuted at one session by the local magistrates for not having their port numbers painted up on each side of the mainmast. Each was fined £2/6d.

There were some excellent sardines by the Scottish steam drifters during 1902 with Peterhead boats coming in very high on the list. A few top examples were *Lucy* (£1,000), *Theseus* (PD 390),

£950; *Rose* (PD 388), £800; *Iris* (PD 402), £700; *Shamrock* (PD 397), £674; and *Petunia* (PD 398), £670.

Another boat with high earnings was *Promote* (BF 410) with £973. And, to round it off, the two Banff boats *Fame* (BF 665) and *Speedwell* (BF 718) earned £600-£700 each.

Some of the Scottish boats returned home at the end of the season with pianos and mangles stowed in the hold, bought with some of their hard-won earnings.

Others were not so fortunate.

S. D. Prosperity (BF 649) lost three of her crew when they were washed overboard on the trip home.

A wooden steam drifter for Scottish owners all down the ways at Fellow's Southwold yard on February 9, 1903. Her name was *Henry* (BF 1090) and a press statement said that her machinery builder, F. W.

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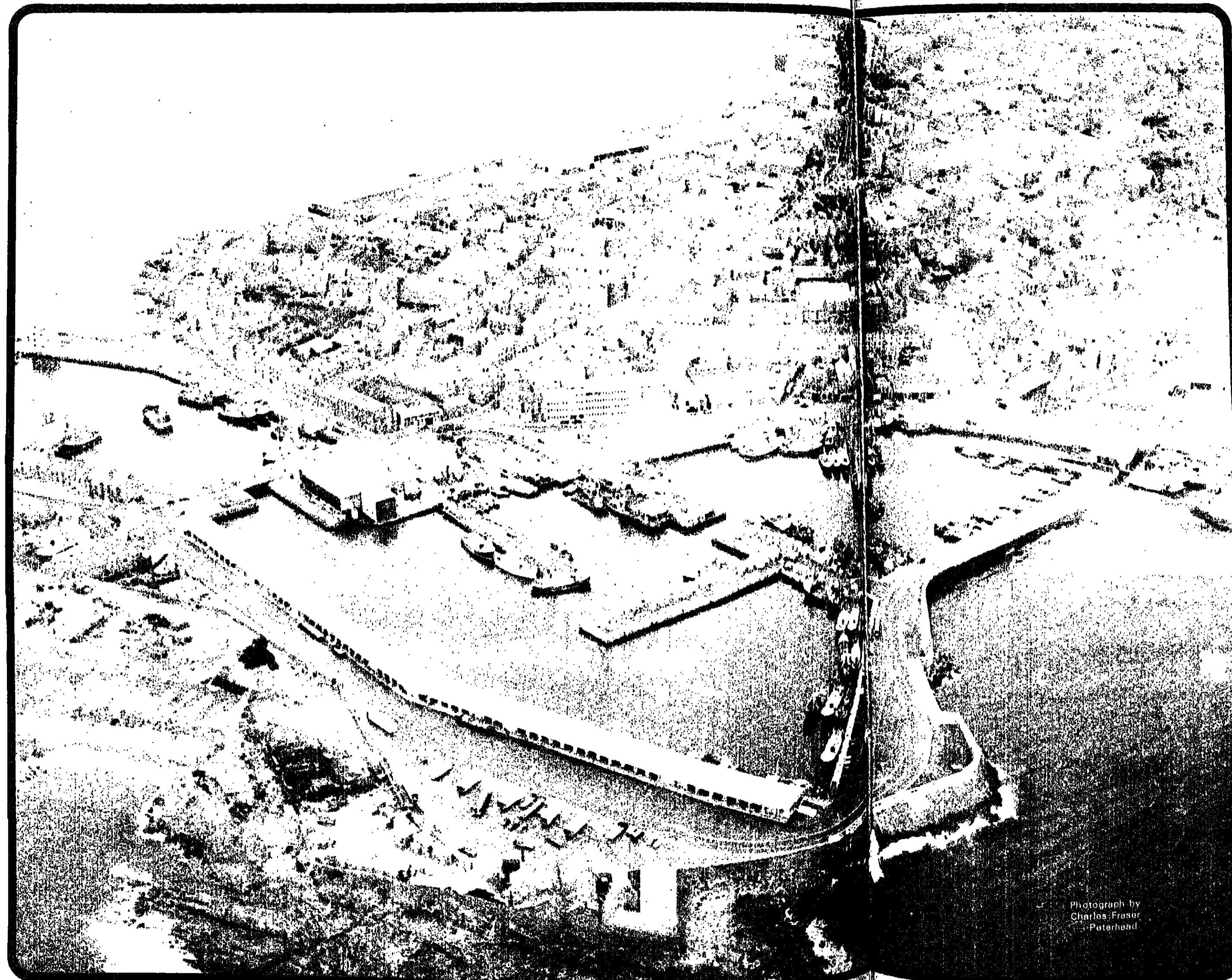
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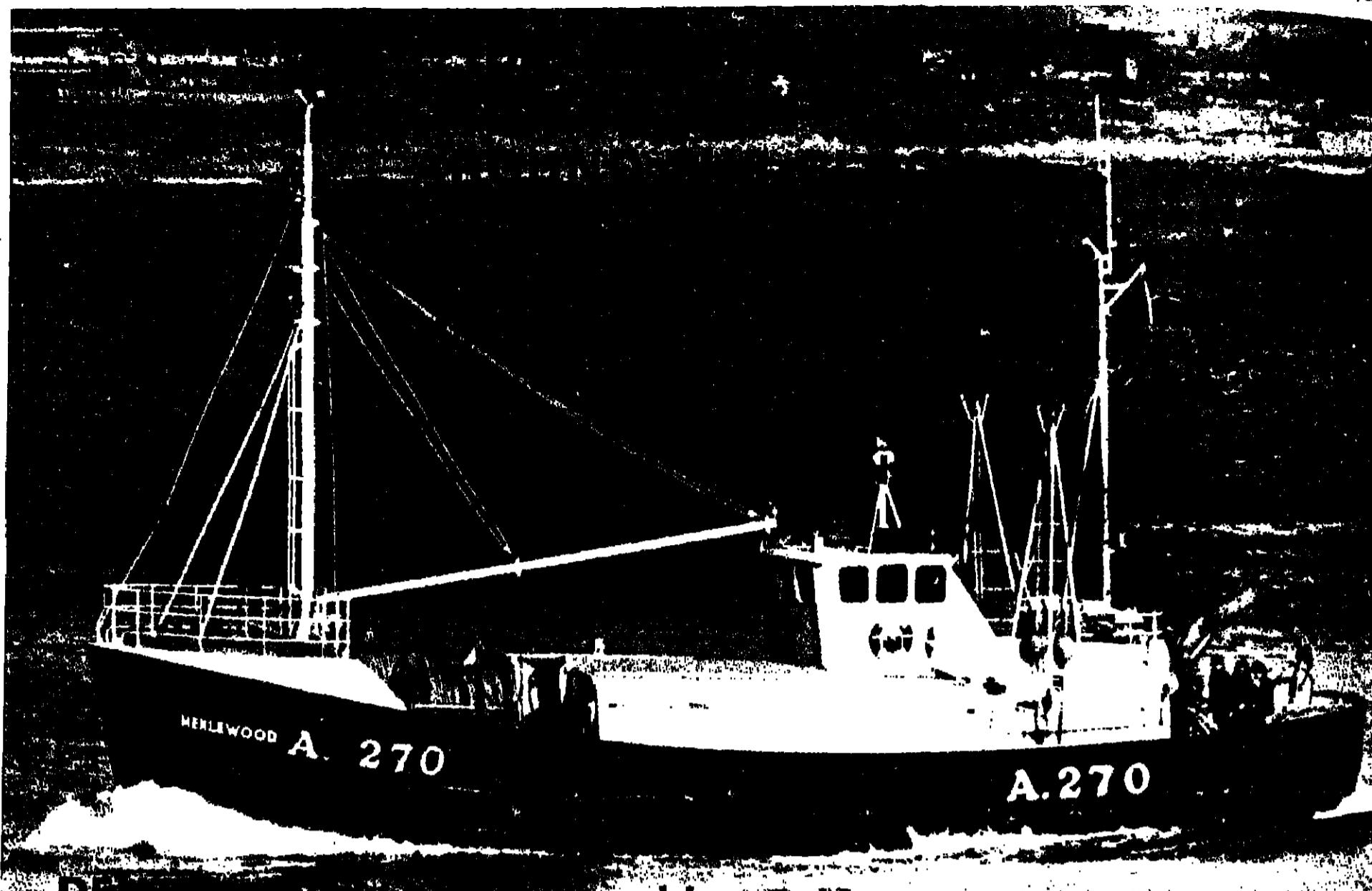
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Yarmouth

From page 57

Lowestoft drifter *Silver Crest* (LT 46); each boat held the trophy for six months.

In 1957 M.D. *Silver Chord* (KV 124) proved a winner under Skipper James Muir with 212 crans, taken about 68 miles from the Corton L.V. on the night of November 13/14. Skipper James Muir was previously in command of the last Scottish steam drifter to work out of Yarmouth in 1958, the well-remembered *Coriedale* (KY 21).

This grand old lady was built in 1918 by John Duthie at Aberdeen with the name *Dusk*. It was good to see her name in the Scottish landings at Yarmouth in 1956 — she came in on October 20 with a shot of 160 crans.

History was made at Yarmouth in 1957 when M.D. *Incentive* (FR 143) returned from the Smith's Knoll grounds with a live herring swimming in a barrel on her deck.

Incentive's crew, including veterans with many years of experience of herring fishing, said they had never heard of a live herring being brought back to port. Other fishermen, with up to a half-century's experience, agreed. They recalled failed efforts made by fishermen both from English and Scottish ports to catch a herring and get it ashore alive.

Incentive's herring was full of life, however, and was swimming in the barrel on deck while her crew unloaded the 35 crans they had caught during the night 25 miles from Yarmouth.

The feat of bringing back the herring alive was an accident. The barrel belonged to one of the crew and he was hoping to cure herring in it. As it was a new barrel, he had filled it with salt water to help seal it and it was on deck while the crew were hauling. Skipper Dan Patience said: "The herring must have flown out of the net and landed in the barrel while we were hauling".

The Fraserburgh fleet supplied the Pruner Trophy winner in 1960, with M.D. *Silver Harvest* (FR 178) under Skipper J. Cardno making a shot of 187 1/2 crans. The final winner of the trophy was another Fraserburgh vessel, M.D. *Tea Rose* (FR 346).

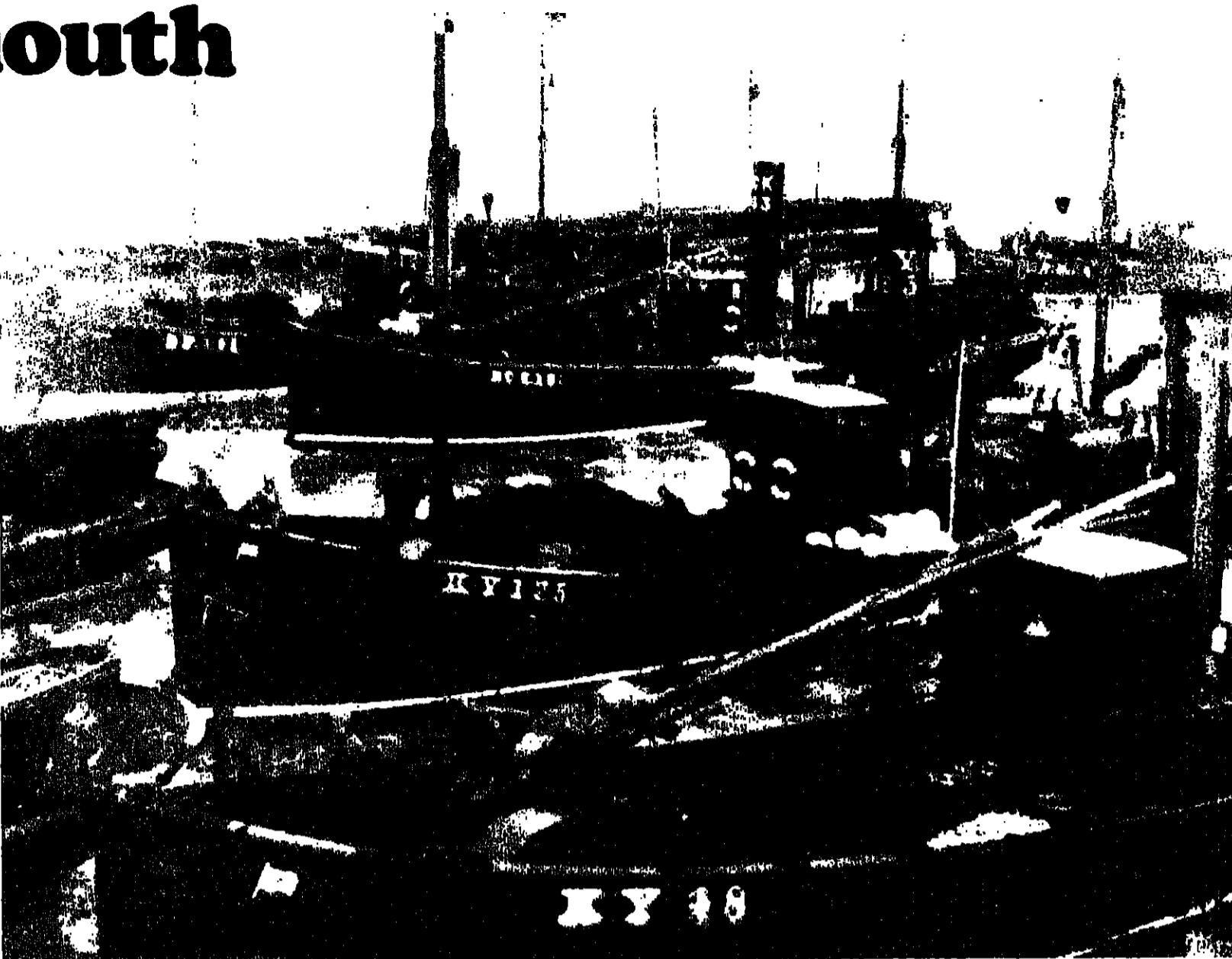
Under Skipper C. Duthie in 1968, she landed a shot of 128 1/2 crans. No further awards for the trophy were to be made and the present resting place of the trophy is in the Cottage Museum at the Sparrow's Nest, Lowestoft. It is treasured along with many other interesting relics of a bygone era.

Following the gradual disappearance of herring from their traditional grounds each autumn, the Scottish boats became fewer and fewer, and landings became smaller, until the point was reached when it was just not economic for the Scottish boats to come this far south for herring.

In 1970, the figure quoted by the Port and Haven authorities came to only 71 crans of herring being landed at Yarmouth. Since that date, no more landings were officially recorded at Yarmouth, which brings us to the end of a most interesting part of the history of the fisheries at Yarmouth.

Many tides have ebbed and flowed over the Yarmouth Bar since the last Scottish drifter discharged her 'shot' at the port.

Without the Scottish visitors Yarmouth is that much the poorer and has lost



Above: no room for error as the Scots race in to the scales. Being first or last made a big difference to the crew's pay.

Left: *Boy Archie* (BK24) was one of the early steam drifters — the craft has her funnel ahead of the wheelhouse! She was built at Lowestoft in 1901.



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Landing was by basket. This catch is coming ashore from a Buckie drifter.

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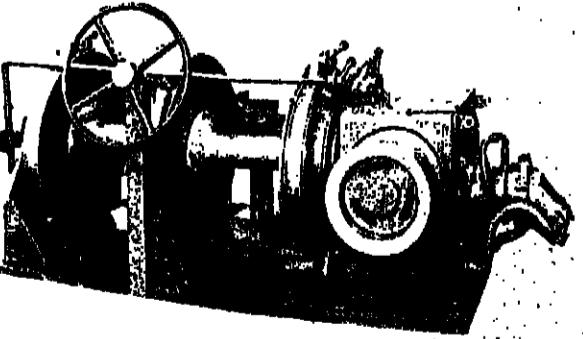
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June 9, 1978

FISHING NEWS

June 9, 1978

Sold purse

THE FIRST steel purse seiner to be built in Scotland has now left the Peterhead fleet. She is the 90 ft. steel vessel *Responsive* (right) which was built as the purse seiner *Claben* in 1968 for Skipper Jimmy Lovie. He later came ashore to take up the post of chief executive of the Scottish Fishermen's Association.

A product of the Renfrew yard of Hugh McLean and Sons, she later switched to fly-dragging seining for white fish.

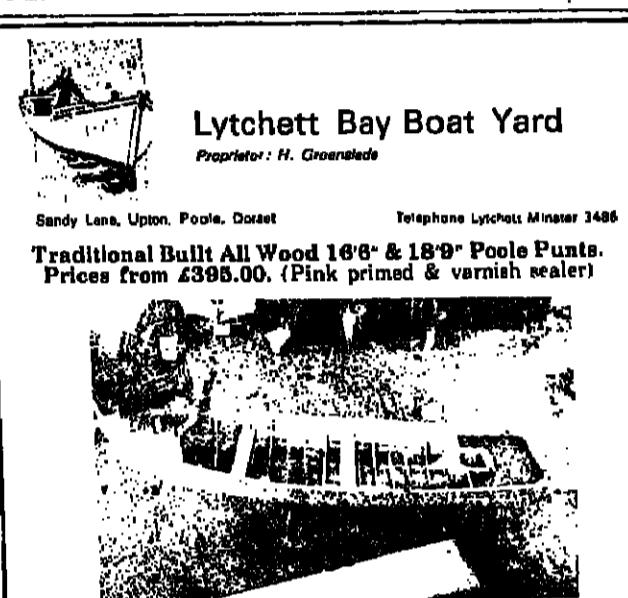
In 1976 she was bought by Skipper J. S. Nicol and partners and was renamed *Responsive*.

Now she has been sold to Orkney skipper, Angus Sinclair, but it is understood she will continue to land her catches at either Peterhead or Aberdeen.



Boats on the move at PETERHEAD

Below: *Benvolio* prepares to set off on her first fishing trip under her new owner, Skipper Peter Ritchie. The boat, with her partner *Lorenzo*, landed 717 boxes after a seven-day trip pair trawling.



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BACK WHERE THEY STARTED FROM!

AT THE END of May Peterhead's fishing fleet numbered 103 vessels over 35 ft. long.

More than 50 new boats have been built in the 1970s for the port and almost all these newer units are in the 75 to 90 ft. range with steel taking preference over wood.

Now getting into the swing of working from their new home are the 87 ft. Tynedraft-designed sister-ships *Benvolio* and *Lorenzo*, bought from Fleetwood by skipper Peter Ritchie and Arthur Buchan.

They are pair trawling for white fish together and made an encouraging start when, on May 2, they landed 717 boxes after a seven-day trip.

Both vessels have a complicated history as they were caught up in the bankruptcy of two shipyards — and they also changed hands before they were even completed! The saga of these two boats has now turned full circle.

They were originally ordered from the Tyneside yard of Ryton Marine for Peterhead skippers, in association with Caley Fisheries Group Ltd. Following the bankruptcy of this

yard the order was passed on to the Berwick yard of Intrepid Marine International. Early in 1975 the Berwick yard went bankrupt and was taken over by Caley's parent company, Associated Fisheries Ltd., so that the boats could be completed.

Then, Caley transferred the boats to Associated Fisheries which passed them to its division, British Trawlers (Grimsey) Ltd. BUT finally allocated them to Fleetwood to work under the management of Wyre Trawlers Ltd.

The builders, by then renamed Tweed Shipyard (Berwick) Ltd., completed *Benvolio* in 1976 and *Lorenzo* was delivered the following year.

Both vessels were, however, completed to a high standard of craftsmanship and finish. The two vessels have trawled for mackerel and white fish under their Fleetwood managers, but were sold as a result of Wyre Trawlers pulling out from Fleetwood.

So, in the end, they have come to Peterhead as originally intended. They are agented by Caley which now operates under the name of Caley Fisheries (Peterhead) Ltd.

Each vessel is powered by a Mirells Blackstone 750 hp engine and deck machinery includes trawling winches and net drum, plus a Rapp power block.

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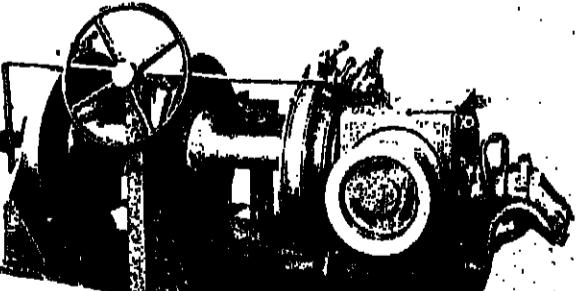
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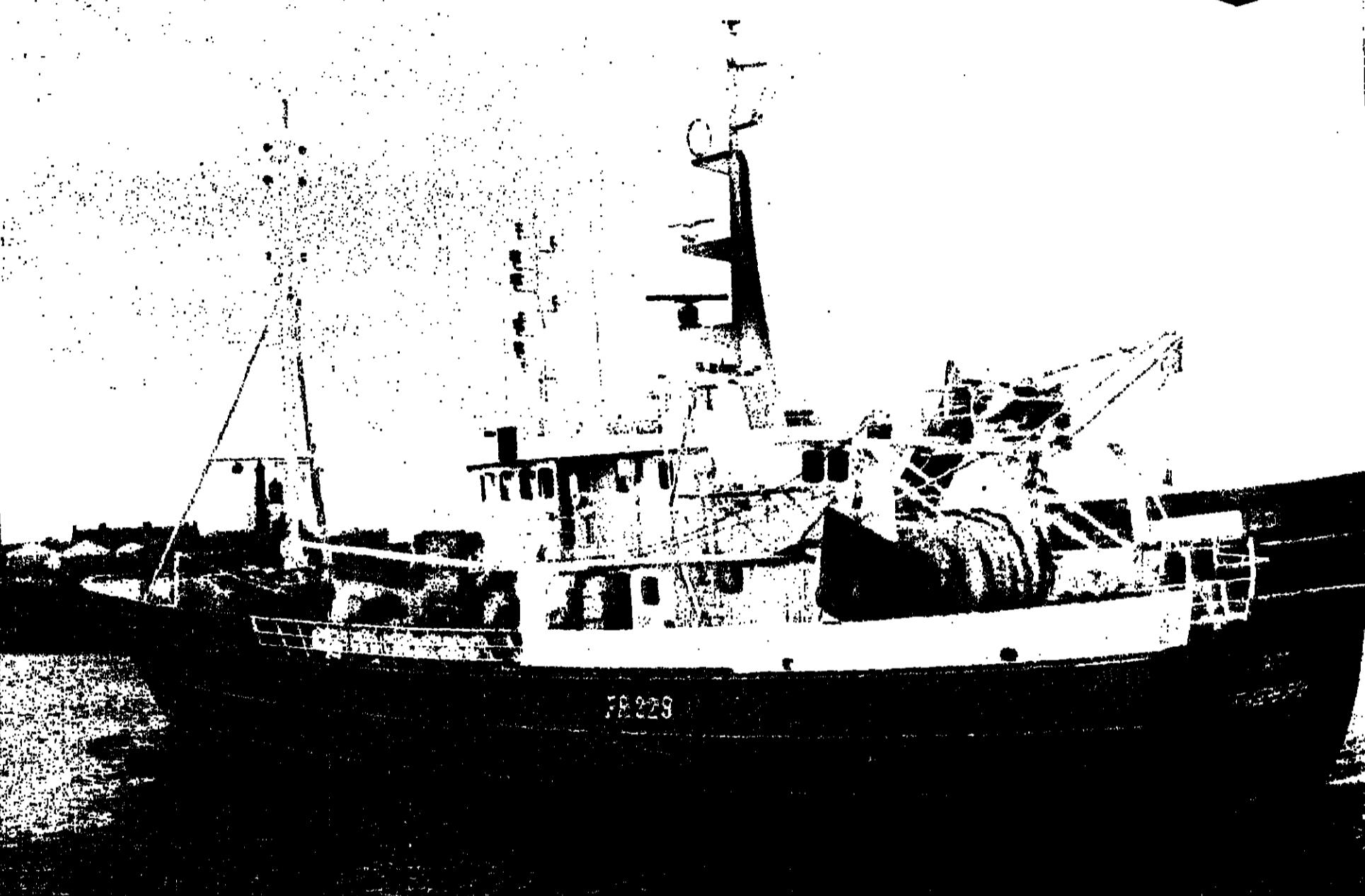
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NON-STOP TAITS TAKE ON FIFTH PURSER

June 8, 1978



The 140ft. purser/trawler Tait arrives at her home port of Fraserburgh from her builders in Norway. She is the biggest purser built for a UK skipper and is a slightly larger version of the family's *Chris Andra*. Tait can carry 470 tons of fish in six refrigerated seawater tanks. She is soon to be followed by another purser for the same family.

SCOTTISH fishermen are demonstrating their confidence in the future with massive investment in new vessels despite the uncertainties facing the fishing industry. Among these go-ahead men are the Tait family of Fraserburgh who have had two new purse seiners costing some £2.4m. built in Continental shipyards this year.

What is even more remarkable is the fact that the Taits have built the vessels without financial help from Government sources. The first of

these new vessels, the 140 ft. *Tait*, was delivered in April from the Norwegian yard of Karmoy Mek. Verksted of Kopervik. She is now fishing under Skipper Andrew Tait. His brother, William, will take command of the second purser nearing completion at the Maaskant shipyard, Holland.

Third Tait brother, Robert, is now in charge of the family's other purser, the 135 ft. *Chris Andra* built by Karmoy in 1975.

Now the three brothers are to work with these larger boats, their three previous commands — *Conquest*, *Challenge* and *Comrade* — have all been sold to other Scottish owners.

Talking to *Fishing News*, Skipper Andrew Tait said that providing the UK gets

We congratulate the owners of the M.F.V. **TAITS** and hope she will be a "lucky ship"

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Skipper Andrew Tait aboard his new command. He started his career on the blue whiting grounds off Scotland, but the fish were too difficult for even his super-ship which is powered by a 1200 bhp. Winton diesel.

Turn to page 70

June 9, 1978



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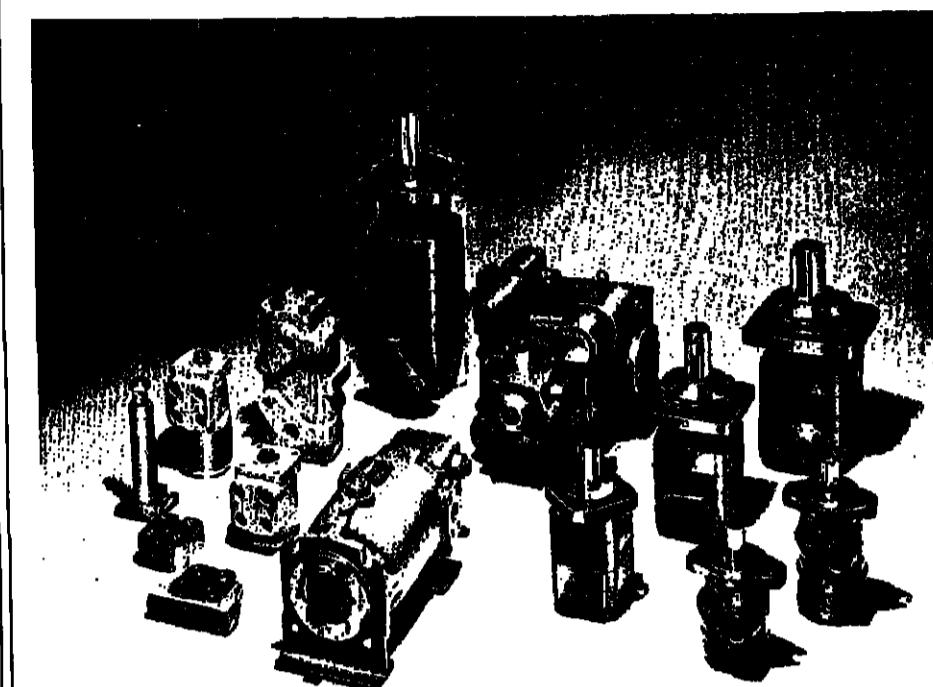
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From page 68

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PNP Duerr Limited regret being unable to exhibit at Catch 78 due to heavy export commitment just completing.

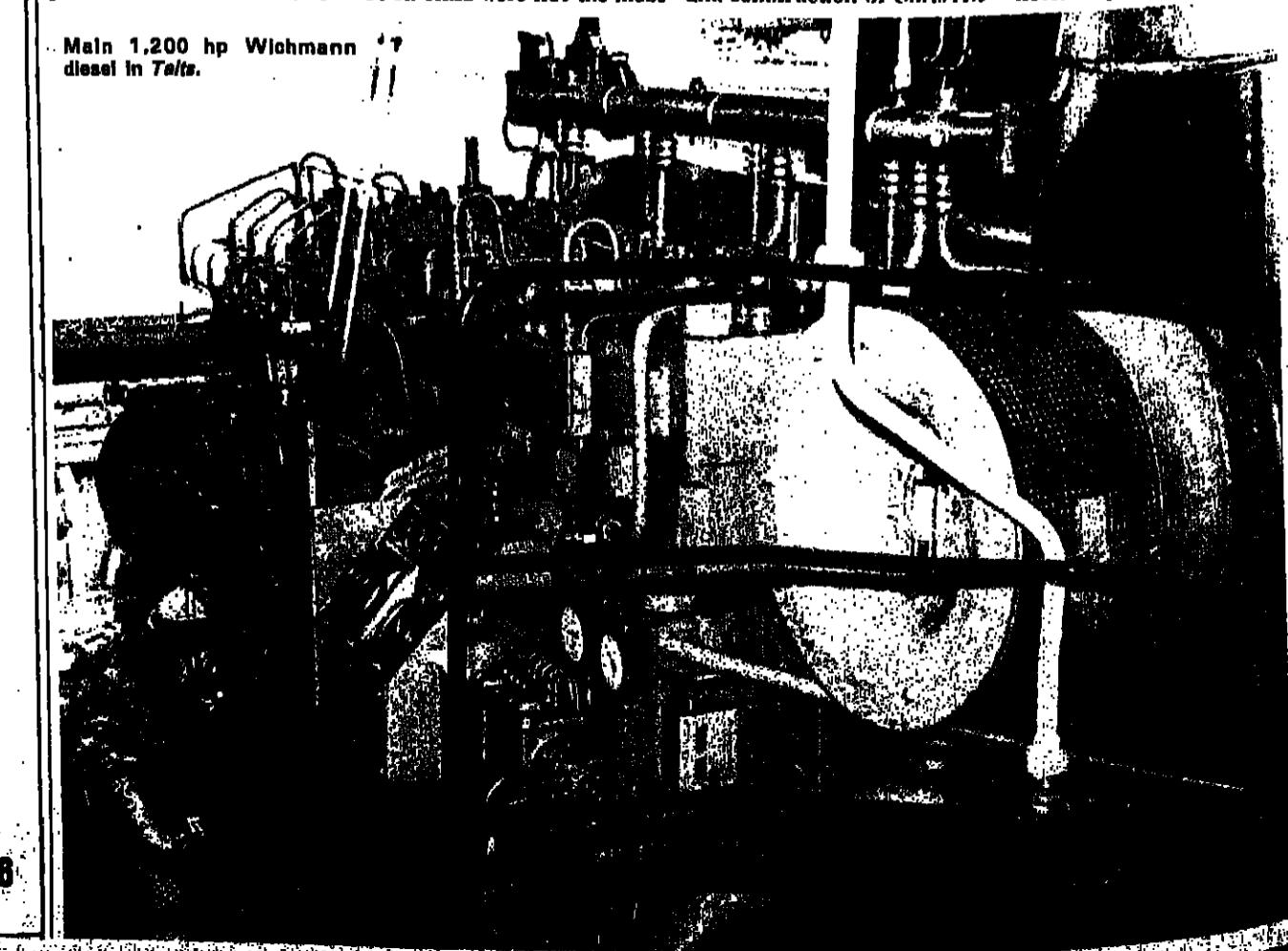
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TAITS

reasonable agreement with its EEC partners, he was not too concerned about the future.

"Our biggest worry is that quotas are being ignored by other countries. This can only be cured if Britain gets dominant control of fish stocks in her own waters," he added.

Tait is the fifth purse seiner to be built for the Tait family. In 1968 they took delivery of the 85 ft. *Conquest* from Renfrew and, then, in the early 1970s they had the 88 ft. *Challenge* and the 89 ft. *Comrade* built in Norway and Holland respectively. So they had a boat for each brother.

Their father Skipper Andrew Tait Snr, who for many years had been one of

Scotland's leading herring drift net fishermen, had by now come ashore to organise the operation of the three purse seiners and the maintenance of their fishing gear.

By the early 1970s, however, it was becoming obvious that vessels in the 80 to 90 ft. class were not the most

efficient for purse seinining. In 1974 *Challenge* was lengthened by 20 ft. and fitted with chilled seawater tanks. This work was carried out in Norway at the Karmoy shipyard.

Karmoy is also well-known for its gear handling machinery which is in wide use by the Norwegian and Scottish purse seine fleets.

An order was also placed with Karmoy for the design and construction of *Chris Andra*, which, at the time of her delivery in 1976, was the largest and most sophisticated vessel in the British purse seine fleet.

She cost some £800,000 and was built privately. Her advanced features included refrigerated seawater tanks.

Chris Andra was only the second vessel to be built by Karmoy and *Tait* is the third. The yard's previous work had been mainly based on ship repairing and engineering, in addition to handling several lengthening jobs.

Karmoy is also well-known for its gear handling machinery which is in wide use by the Norwegian and Scottish purse seine fleets.

Tait has been wholly designed and built by Karmoy and *Tait* is the third. The yard's previous work had been mainly based on ship repairing and engineering, in addition to handling several lengthening jobs.

Tait has been built to Det Norske Veritas + 1A1 Deep Sea Fishing classifications and also satisfies the latest requirements of the Department of Trade.

The engine is equipped with a Brown Boveri turbocharger and has compressed air starting.

Hydraulic pumps for gear handling machinery and side thrusters are driven from a power take-off shaft at the forward end of the engine through a Karmoy gearbox.

With one input shaft and six output shafts, the gearbox consumes up to 800 hp with a maximum torque of 1,800 kpm.

The two net bins at the stern are also slightly larger than those aboard *Chris Andra* and, in addition, *Tait* also carries a net drum for working mid-water trawls.

For trawling, *Tait* is also fitted with Simrad net sounding equipment which includes the new FH temperature readout and catch indicator.

Tait has been built to Det Norske Veritas + 1A1 Deep Sea Fishing classifications and also satisfies the latest requirements of the Department of Trade.

Main dimensions are: length 115 ft; beam over frames, 28 ft. 3 in; moulded depth, 13 ft. 1 in; and depth to shelterdeck, 21 ft. 2 in.

Except for the wheelhouse, aft mast, funnel and hatch covers which are of aluminium fabrication, the vessel is of all-steel construction. Design features include a full length shelterdeck with

raked stem and transom stern.

On sea trials, *Tait* achieved a speed of 12.7 knots. Main power is supplied by a Wichmann 4AX four-cylinder, two-stroke diesel engine developing 1,200 bhp at 375 rpm. This is coupled to a direct drive to a Wichmann controllable pitch propeller.

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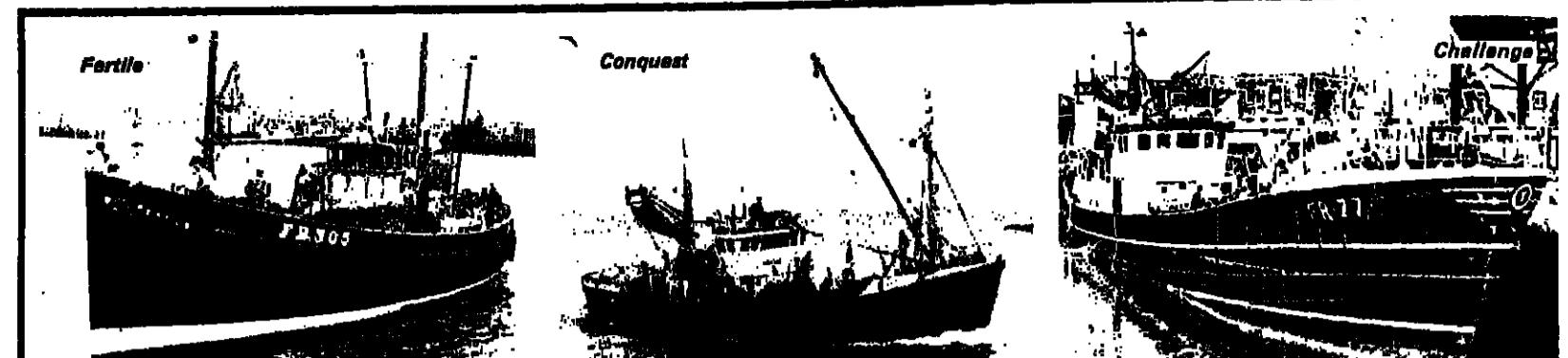
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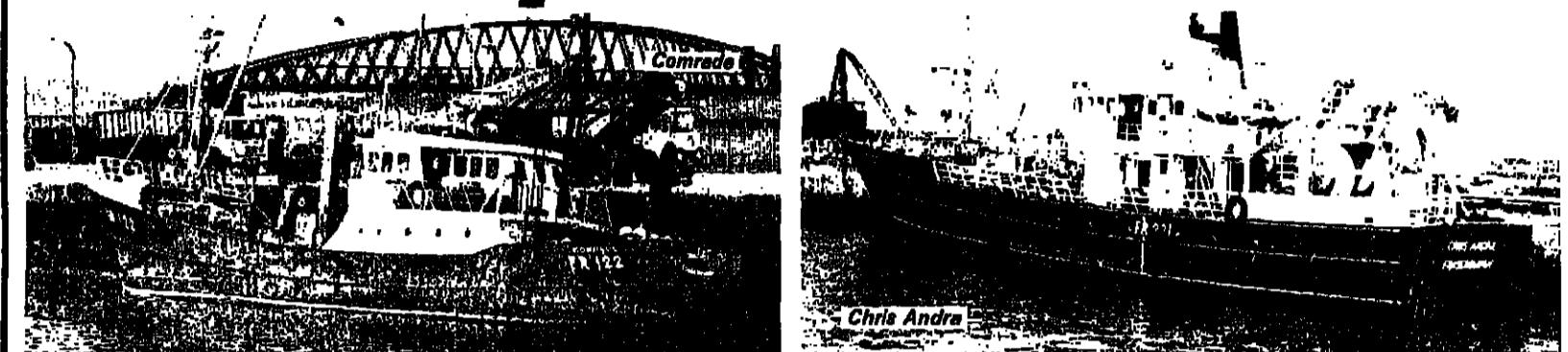
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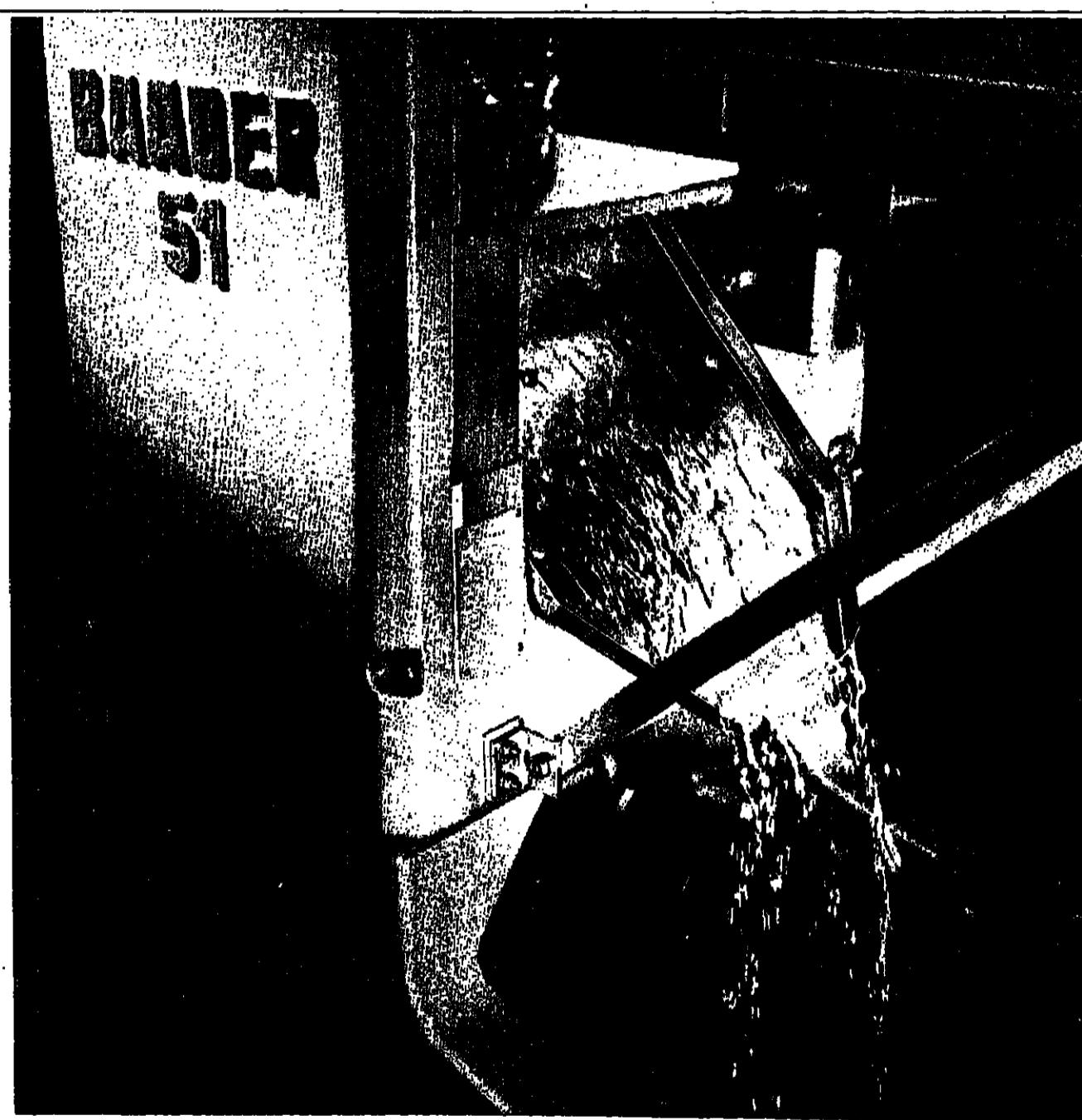
Five steps to success



Below: the Triplex net winch from P. Bjørshol Mek. Verksted of Norway is fitted to starboard of the deckhouse. The three-barrel unit is the model 603-360-20.

Below right: Karmoy 14in. fish pump and fish and water separating equipment.

Most of the deck machinery is from Karmoy



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shown at
CATCH '78
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TAITS

From page 71
A harbour generating set is housed at the forward end of the vessel, below the main deck. This consists of a Lister HRW4A diesel engine giving 43 hp at 1,500 rpm driving a Newage Stamford 34 kVA 220 V, three-phase, 50 Hz alternator.

Some 80-tons of fuel oil are carried in the stern and in wing tanks in the engine room. Fresh water is carried in the double bottom below the RSW tanks.

Three 52-ton capacity seawater ballast tanks are fitted in the fore end of the vessel and can be filled or emptied with an Allweiler electrically-driven pump fitted in the harbour generator room.

The six RSW tanks are served by a Kvaerner type 92/02E refrigeration system designed to cool 78-tons of seawater from 15 deg. C. down to 0 deg. C. in few hours.

Two Hall Thermotank electrically-driven compressors are fitted at the fore end of the main deck and water is circulated through the tanks by Allweiler electrically-driven pumps housed in the harbour generator room.

The RSW tanks are insulated with foamed polyurethane from Jotun's and are fitted with steel hatches. An Autronics indicator monitors the temperature of the water in the tanks.

The fish pump is supplied with fish and water separator as well as hoses for pumping the catch from the net into the tanks.

The remainder of the fish

and includes: purse and trawl winch; endwire winch; net drum; net sounder winch; fish pump; anchor windlass; and boom swinger with boom lifter.

Located on the port side forward, the model 116-246 combined purse-trawl winch carries two drums for trawl warp, two for purse wire and is also fitted with a cargo drum.

The winch is driven from a hydraulic power pack at the fore end of the main engine and the spooling gear can be driven from an electrically-powered Anderson Odegaard pump fitted in the RSW compressor room.

Fitted to starboard of the deckhouse, the model 116-236A endwire winch is used for a number of functions including hauling in the wedge of the net, working the brailer for unloading fish from the tanks and for manoeuvring the fish pump.

The 14 in. fish pump is supplied with fish and water separator as well as hoses for pumping the catch from the net into the tanks.

A Triplex model 603-360-

20 three-barrel net winch is mounted starboard of the deckhouse. This is used in association with two TRH70 transport rollers which direct the net in use into its own bin.

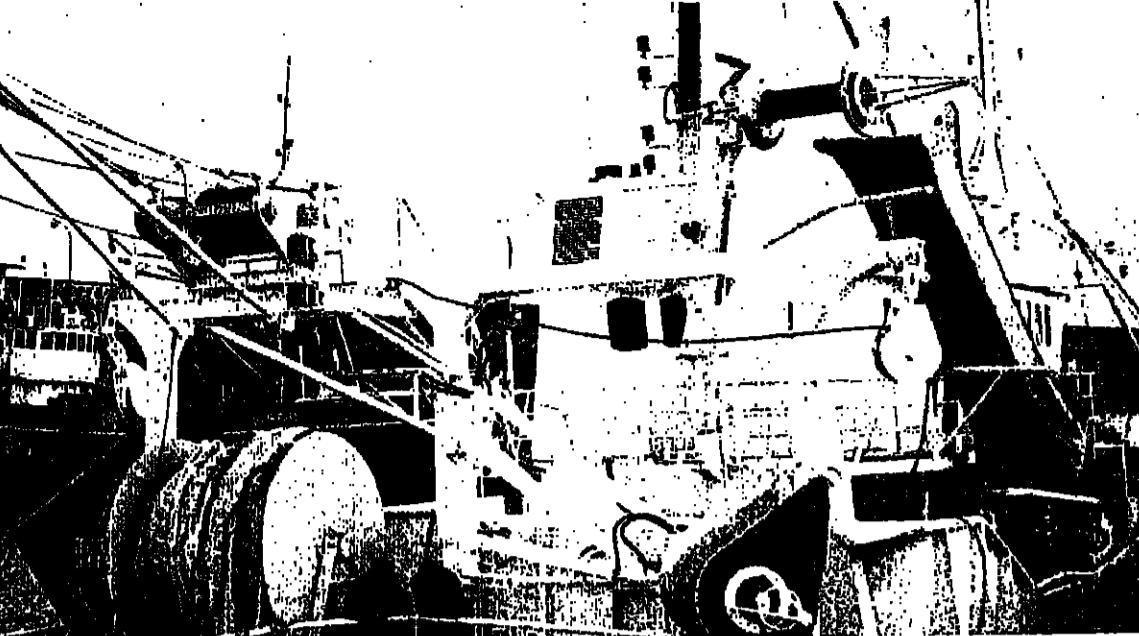
The Karmoy net drum is located aft of the deckhouse. A trawl gantry spans the quarters.

The double cable anchor windlass is positioned well forward on the shelter deck. A boom swinger and lifter are used to work the main derrick.

Deck layout and equipment enables the boat to go to sea equipped with purse seines and mid-water trawls ready for working as required. When she started operating, *Taits* carried Saganet purse seines and Norasnet mid-water blue whiting trawls.

The wide range of fish finding equipment in the wheelhouse includes three sonar sets: Weenar SS220 Scanning Sonar, C-Tech Omni Sonar and Elac Mittel Loder with LAZ 44 Sonar Scope.

The remainder of the fish



A view of the vessel from aft, showing the net drum, trawl gantry, net sounder winch and the two transport rollers.

The net is indicated on the echogram as two parallel lines and on how well it is fishing.

Pre-warning of obstacles on the seabed, or of decreasing depth, are also given to allow the net to mid-water trawling.

Turn to page 75

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This year is being shown the updated version of the skinflint white Fish Skinning machine as well as the Flexible 44 Skinner.

These coupled with the Block Skinner and Finning machinery make up a very formidable exhibit from Fisadco Limited.

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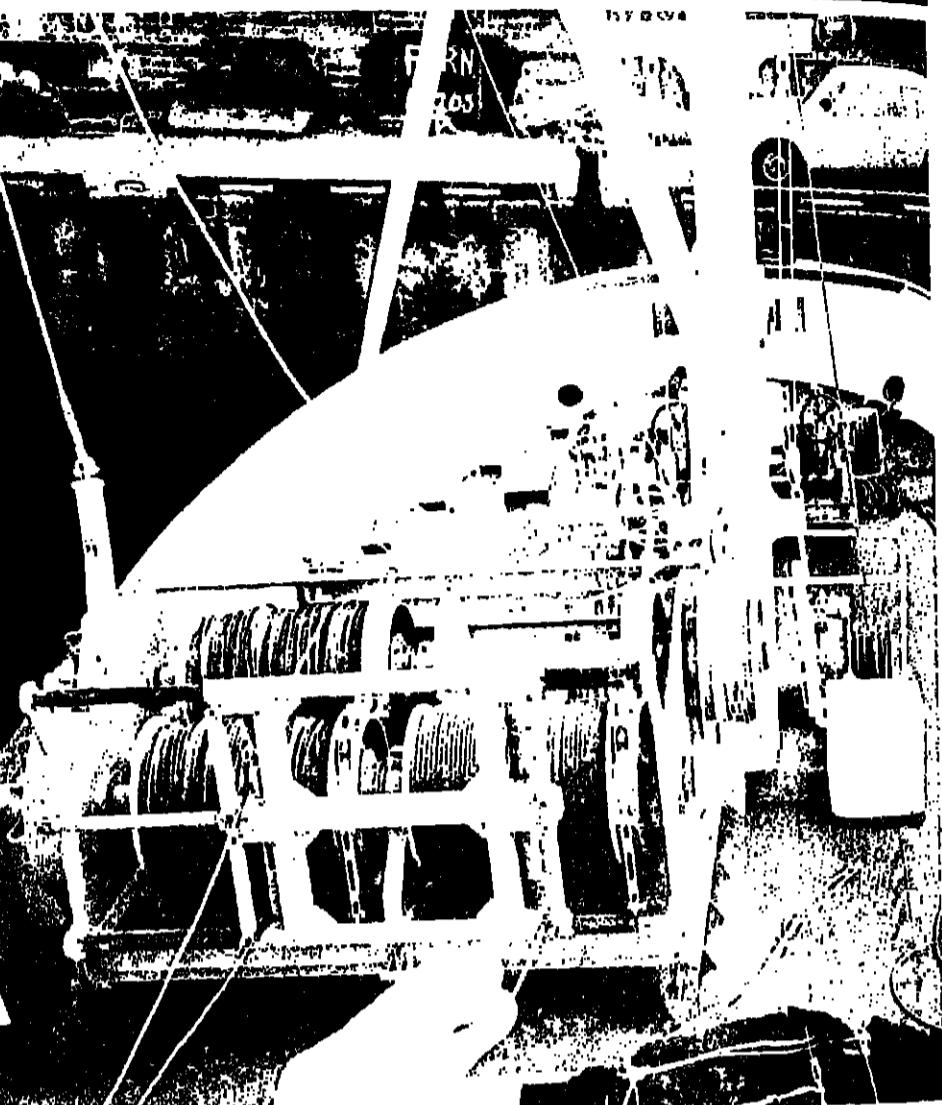
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NORTH HUMBERSIDE

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From page 73

Below: View looking forward along Tait's shelter deck, showing the Karmoy combined purse seine and trawl winch. The anchor windlass is fitted forward of the mast.



June 9, 1978

From page 73.

sufficient time for the trawl to be adjusted.

Tait is the first vessel in Scotland to be supplied with the new Simrad Catch Indicator, which is used as a supplement to the net transducer. This equipment consists of sensors fastened to the trawl to measure the tension of the mesh in several different places.

Changes in tension indicate the amount of fish in the cod end and prevents overloading of the trawl. This is of particular value in the blue whiting fishery where hauls can be so huge that nets often burst.

Sensors are connected by cable to the net transducer housing. Catch information is transferred to the vessel via the net transducer cable and is indicated on the EQ echogram.

Water temperature at the net can also be indicated on the echogram.

Intercom

Communications equipment in the wheelhouse includes: two 'Sailor' T126 R106 sub radio telephones; 'Sailor' RT143 and RT144 vhf radio telephones; Vingtor intercom system; Mermaid 23 watchkeeping receiver, and Skipper direction finder. Navigation aids include: Decca Mk. 21 Navigator; Robertson AP-6 automatic pilot; Tenfjord H-330 160 ESG steering gear; Furuno FRM64 and FRS 24 radars and J. G. Krohn compass. A Hansen helmsman's chair is fitted in the wheelhouse and a Noack searchlight is carried on top of the wheelhouse.

Accommodation is of an exceptionally high standard. A suite for the skipper incorporating day-room, sleeping quarters and wash room with w.c. is arranged on shelter deck level, below the wheelhouse.

On the main deck level there is a large messroom and lounge, a galley, three single-berth cabins, double-berth cabin and two showers.

A Beha electric cooker and Electrolux fridge are fitted in the galley. Electrolux deep freeze cabinet, clothes washing tub and dry provisions store are also located in the accommodation area.

Two double-berth cabins

are arranged below the main deck aft.

All cabins are fitted with wash hand basins and central heating. Domestic hot water is provided from a Pyro oil-fired boiler fitted in the engine room.

Tait has not had a very

successful time in her fishing

operations so far. Her first

trip to St. Kilda were spent

trawling for blue whiting.

Lack of power to catch this

fast moving fish proved a

problem.

Later, Tait switched for

an early start on the North

Sea sprat but these did not

put in an appearance. It is ex-

pected that, once the sprat

fishery opens up, Tait will be

putting direct into Denmark

on some trips.

When the west coast

mackerel fishing gets un-

derway in July, Tait could

well move on to this fishery in

preparation for the south-

went winter mackerel season.

Later, Tait switched for

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on some trips.

Later, Tait switched for

an early start on the North

Sea sprat but these did not

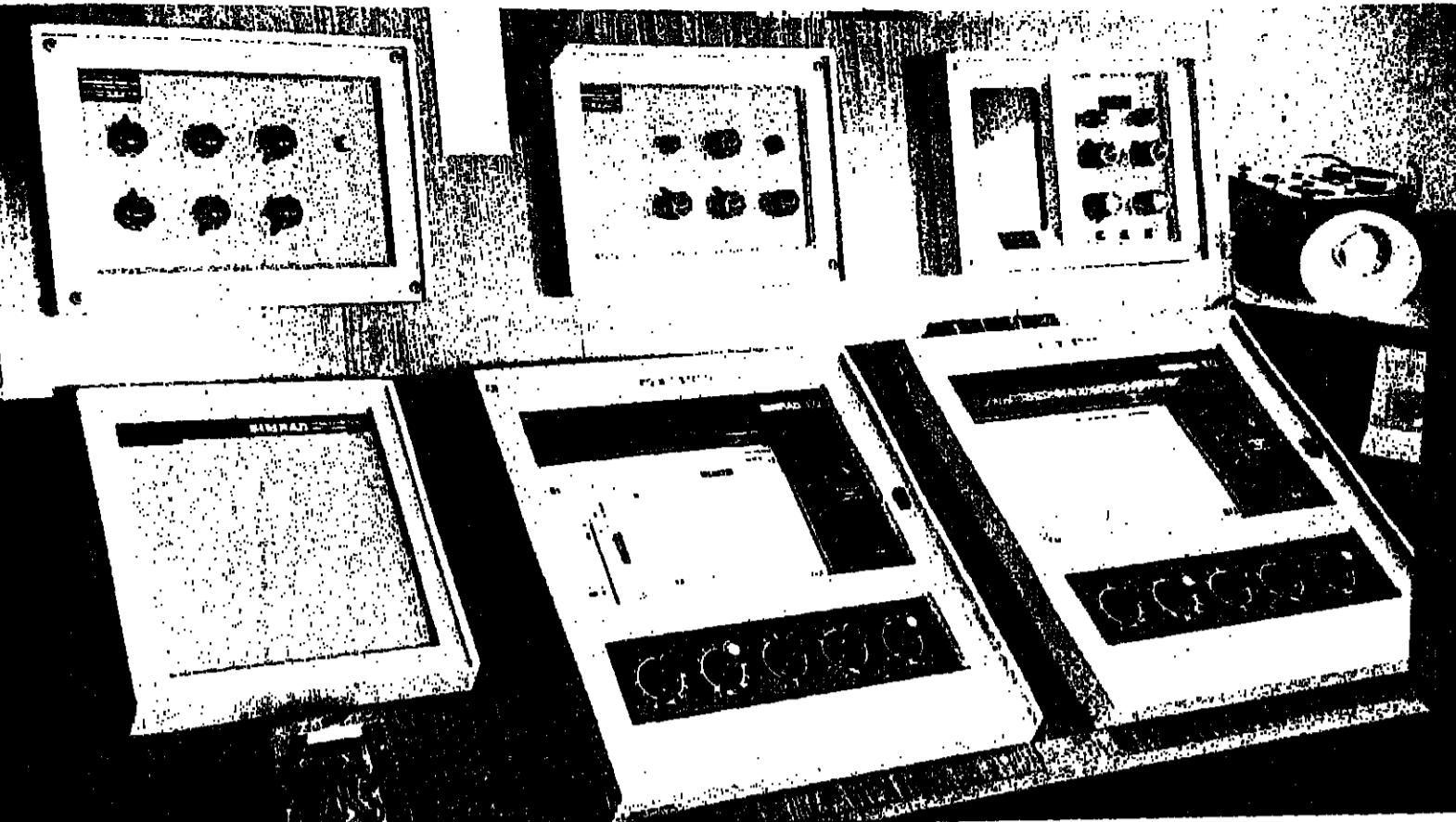
put in an appearance. It is ex-

pected that, once the sprat

fishery opens up, Tait will be

putting direct into Denmark

on some trips.



No other radar
packs so much
performance
into such little
space.

THE PERFORMANCE —

- Outstanding range performance on 6 range scales
- Full 24 n.m. range performance
- Short range scales of 0.5, 1.5 and 3 n.m.
- A very long 0.65 microsecond pulse for strong echoes at long range (and on 3 n.m. for the fisherman)
- 0.1 microsecond short pulse for excellent echo discrimination down to 25 yards.
- Crystal protection with TR cell.
- Slotted waveguide aerial for good side-lobe performance; horizontally polarised to ensure racon reception.
- Display has standard magnifier for 8 inch picture.

THE 'LITTLE SPACE' —

- Compact, light-weight units, — with pedigree good-looks — easy to install.
- Small radome scanner unit (only 57 lb), particularly suitable for sail boat and fishing boat installations.
- Compact display (only 18 lb) for the small wheelhouse
- Portable for taking ashore or dual station use.

The Radar-
DECCA 060
of course!

Backed by Decca's world wide service organization and the seagoing experience from over 79,000 marine radars of every type.

DECCA

Decca Radar Limited, Albert Embankment, London, S.E.1.

WAID MORGAN NEWS

Government subsidy for self-employed persons

SINCE the successful involvement of Waid Morgan in reducing the pensions age for fishermen to age 55 all out efforts have been made to ensure that "the industry is made aware of the various options". Open to share fishermen.

Gordon Rae, the Waid Morgan Director mainly in-

volved in this field, commented "To the self-employed this subsidy of up to 83p in the £ is one which must not be ignored. As well as making sensible provision for retirement, such pension schemes offer the investor an unequalled opportunity as the cash in a pension fund grows without payment of any form of Income Tax or Capital Gains Tax."

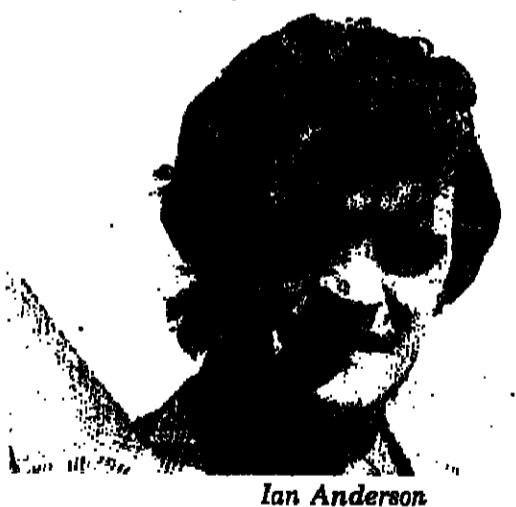


Gordon Rae

Anderson and Strachan lead the FEOGA fight

WAID MORGAN Directors Ian Anderson (Peterhead) and Alex Strachan (Peterhead) are still completing FEOGA applications for fishermen and processors. Having a combined total of 98 applications with a total project value of £31 millions to their credit, their claim that their experience in the FEOGA market is unsurpassed can hardly be disputed.

Frequent visits to Brussels have broadened knowledge on this subject which has caused many heartaches as well as joys since our entry into the Common Market. It is reckoned that there will be a new FEOGA fund when the Common Fisheries Policy is eventually resolved and Waid Morgan are making sure that they have the facts. In the meantime, pressure is being applied in an attempt to have facilities available for applicants caught between the two schemes.



Ian Anderson

Fisherman's Health Scheme increases benefits

AS A RESULT of terms re-negotiated by Waid Morgan on behalf of the Working Fishing Owners Benefit Group, members can now increase their health insurance cover to £3,000 per annum.

The scheme which was introduced in 1973 has paid out a total of £64,000 in claims from long term illness or accident victims.

New terms for the scheme, the only one of its kind in the fishing industry, are as follows:

Cover £3,000 per annum to age 65 (after waiting period of 13 weeks).

Membership cost £62 per annum.

Reduced cover of £2,000 per annum on same terms as above.

Membership cost £42 per annum.

DIAMOND NEWS

SUNDAY TIMES gets it wrong!

CONTRARY to the impression given in the *Sunday Times* article of March 12th, 1978, Waid Morgan was not simply set up to sell diamonds to fishermen. Various "facts" in that article were complete fabrications.

However, Waid Morgan have been studying the advisability of diamonds as an investment medium. As a result of this investigation, which have included visits to diamond dealers, exchangers, and manufacturers in London, Antwerp and Amsterdam, they have concluded that investment diamonds can be recommended as a good medium to long term investment for a maximum of ten to fifteen per cent of a person's assets provided:

1. The stone has been bought as close as possible to the central market (De Beers Central Selling Organisation).

2. That the diamond is certified both by the diamond dealer and an independent institute.

Taking these points into consideration, they feel the amateur investor who takes professional advice can achieve healthy returns from such an investment.



DR. HEALEY'S WEALTH CURE

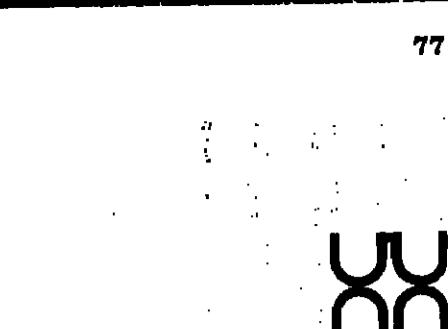
The NEW Symbol

CLIENTS AND FRIENDS of Waid Morgan may have been puzzled recently with the introduction of the new symbol.

— Have they been taken over? — "No" — explains Managing Director G. L. Cargill, "this is part of an internal organisation to focus attention on the different activities of the Company. The new symbol represents the four divisions, namely *Financial consultancy — Handling such items as Feoga grant applications, financial planning for new projects and tax planning, *Insurance brokers — Included in this division are the activities of the marine insurance, building insurance and all other aspects of general insurance. *Life and pensions division — This division co-ordinates such areas as pensions, investment, capital transfer tax planning and straightforward life assurance as a protection vehicle. *Property division — At present a small division within the company providing an estate agency facility of the company's Peterhead and Pittenweem offices.

New additions to the company are life and pensions men Stuart Carmichael and Keith Scott. Based in the north-east, they have specific responsibilities in the fishing industry having moved to Waid Morgan from national companies.

Where do they go from here? Always on the look out for new ideas to reduce



clients tax liabilities or improve investment returns, Waid Morgan will not be standing still.

Much is happening on the economic and political scene and Waid Morgan intend to keep their place at the front.



Gauth Cargill, Managing Director

STUDY TOURS

SINCE the unsuccessful attempt to send a study tour to the less than successful Marseille Exhibition in 1975, Waid Morgan has progressed in this field having been successfully involved in tours to Japan, Canada, Seattle, Florida and Puerto Rico.

Next on the list of what have proved to be enjoyable as well as rewarding trips is Boston U.S.A. to coincide with Fish Expo '78 (October 1978). The organisers of

the tour, Grampian Travel, or more specifically Robin Valentine their tour manager predicts a further success to this highly popular exhibition which is co-ordinated by the National Fishermen. Other tours planned for the next eighteen months include the Far East (Japan, Hong Kong, and Bangkok) — Spring 1979 and Fish Expo '79 at Seattle (taking in the fishing industry in Hawaii!).

IN RECENT MONTHS Waid Morgan have been expanding their activities in the marine market. In an effort to increase active competition Waid Morgan have been exploring new markets through Lloyd's. George Duffus the Director mainly involved in this field stated, "Insurance premiums for the modern fishing vessel reached astronomic levels and it is our aim to ensure that the vessel owners gets the best possible service at the lowest rate."



George Duffus

Container News

SEVERAL clients of Waid Morgan purchased containers from Transcontainer Services, London before 5th April, 1977.

They feel that the concept of container leasing is excellent and should afford the investor a good return with what in effect is a form of business diversification. Initially the main advantage of this exercise is that capital allowances from the containers be offset against other income.

However, all indications are that this may be the case but tax inspectors have been querying this claim for some time.

As far as Waid Morgan is concerned they suggested to Transcontainer Services that no further investment could be advised within the fishing industry until such time as this point has been clarified.

?

?

Are you interested in
any of the services of
Waid Morgan Associates?

Yes?
then fill in and post
this coupon.

To: Waid Morgan Associates Ltd.,
8 Panmure Street,
Dundee, Scotland.

Sirs,

I am interested in

Name (BLOCK LETTERS)

Address

Tel. No.

INSURE YOUR BOAT WITH WAID MORGAN

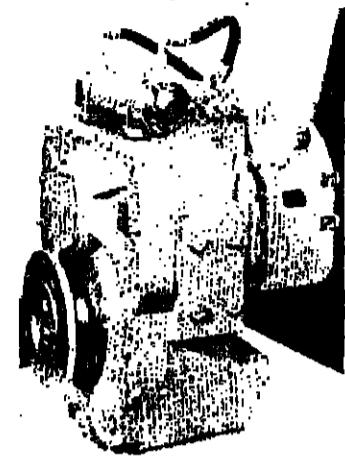
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Date

CATCH '78 PREVIEW

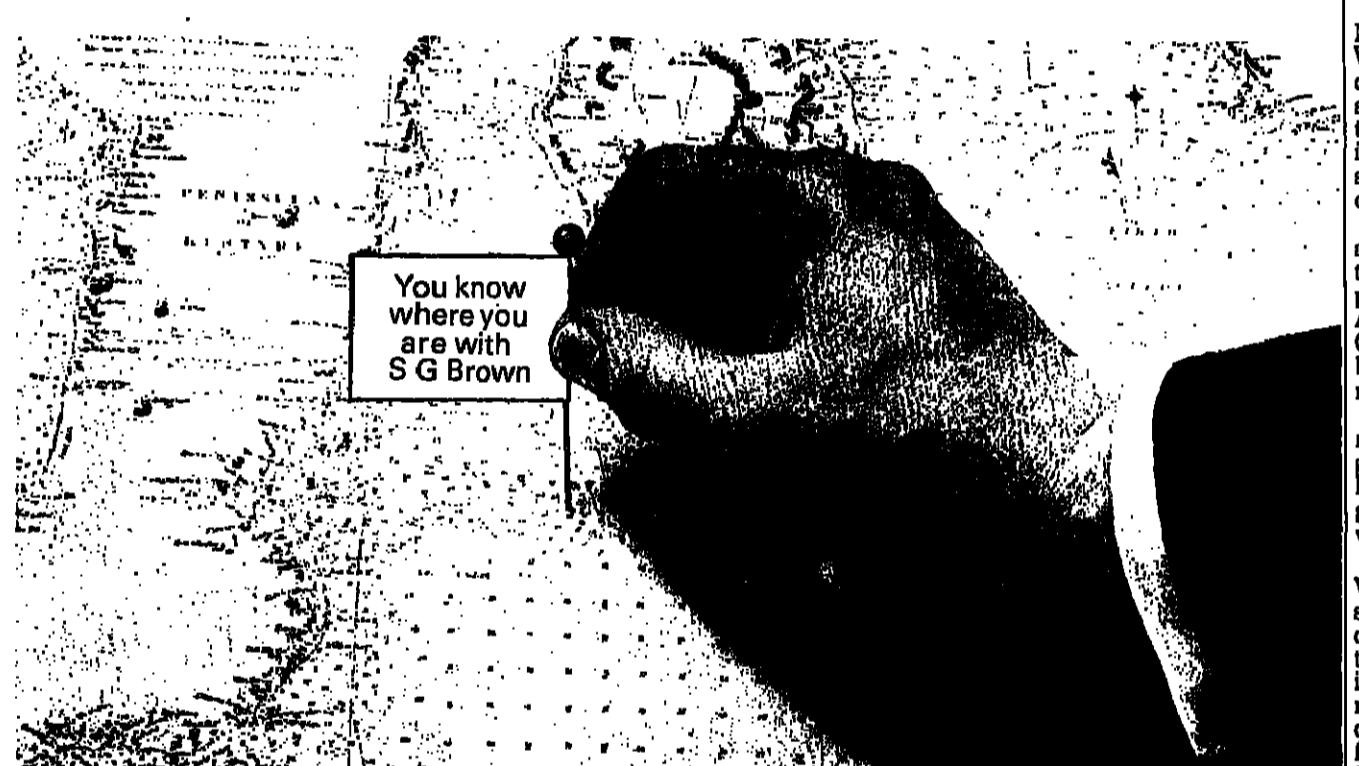
From page 16

The MRF 700 H.D. Mark IV gearbox suitable for all heavy-duty operations, with a maximum input torque of 875 lbs/ft and a maximum input speed of 2200 rev/min with reduction ratios of 2,3,4,4.78 and 6:1, will also be on display.

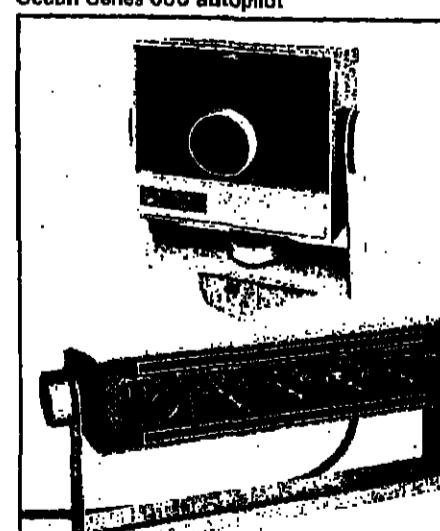


Self-Changing Gears' MRF 700 IVB — one of three gearboxes due at the show.

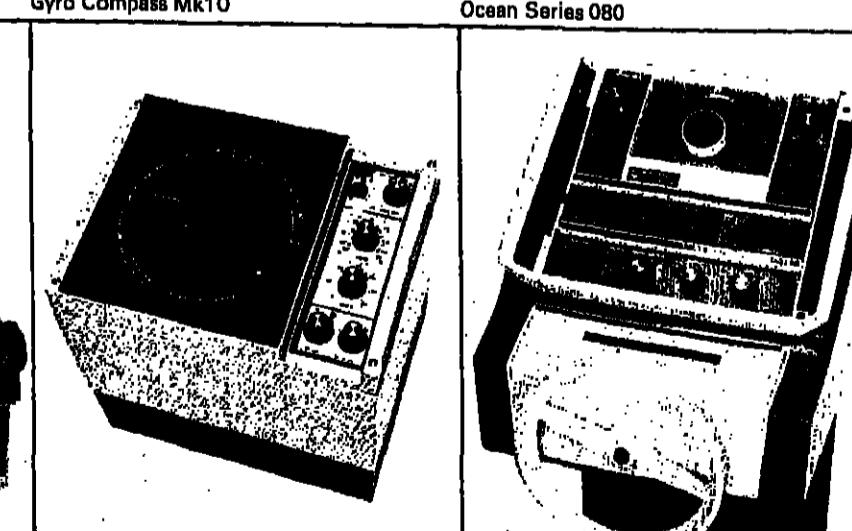
For reliable, accurate gyro compass and autopilot equipment — fit S G Brown.



Ocean Series 080 autopilot



Gyro Compass Mk10



Ocean Series 080

Suitable for smaller vessels requiring an autopilot to be added to existing hand control. Autopilot offers same benefit as in the 080 series.

Automatic starting and running control. Outputs for repeaters, direction finder radar control. Choice of follow-up or direct-acting hand control.

For further information contact the Marketing Manager.

HAWKER SIDDELEY
S.G. BROWN LIMITED

GREYCAINE ROAD, WATFORD, HERTS. WD2 4XU, ENGLAND. Telephone: Watford 27241. Cables: Sidbrown, Watford. Telex: 23406

Hawker Siddeley Group supplies electrical and mechanical equipment with world-wide sales and service.

See you at CATCH '78

CATCH '78 PREVIEW

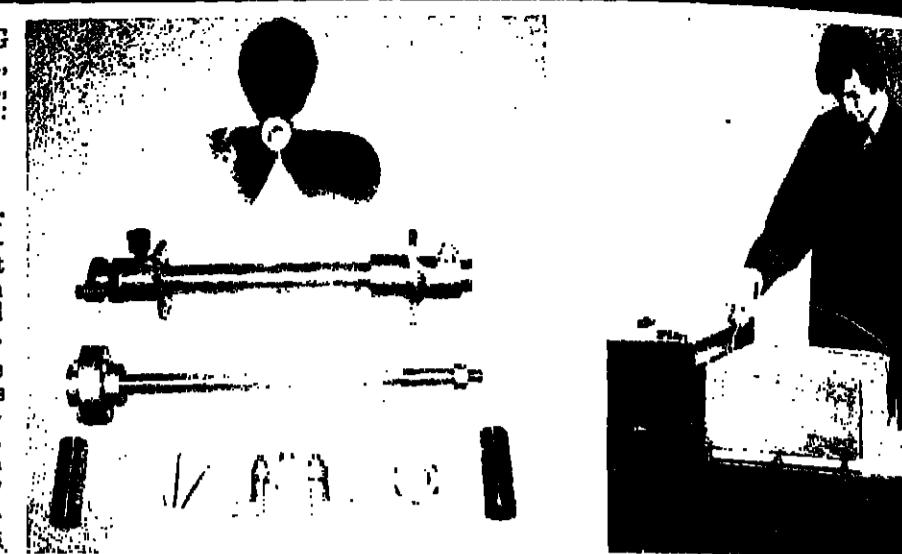
available from: GPG Products Ltd., Cranford, Blackdown, Leamington Spa, Warwickshire. Telephone: 0926 27933.

F. A. L. Scottish Propeller Service. This Buckie company will display propellers at different stages of repair from the original damaged and worn screw to the rebuilt unit.

On the manufacturing side there will be new propellers and complete sterngear including shaft, bearings, etc. F. A. L. has also built up a thriving shipchandlery business and makes and supplies numerous items. These include aluminium fish scoops, marlin spikes, stainless steel rings, links and swivels, plus plastic dhan marker lights.

Also on show will be more than 20 different trays for the processing plant, including the Euro stacking and Ringway nesting/stacking trays which are available in solid or perforated varieties and a wide range of depths. There is also a special plastics dolly to wheel them around.

A full colour leaflet has been produced for the exhibition which features the GPG Containers fishing range. It is



Above left: F.A.L. supplies stern gear complete. Above right: Bridon's Phoenix semi-automatic side sealer.

available for inspection. Also, a full range of synthetic trawl twine, three and eight strand fibre ropes and ships stores sundries.

Bridon also manufactures Startrap polypropylene strapping machines and hand tools. Being introduced at Aberdeen is the Phoenix SW-202 semi-automatic side sealer. Also being displayed is the Bandomatic UCP3 general purpose automatic strapping machine and Startrap hand tools.

M. G. Duff Marine Ltd. Working in the field of cathodic protection for small and intermediate size vessels, this firm will be displaying its range of sacrificial anodes suitable for all types of construction.

New products include shaft and rudder button anodes for the small vessels, chandlery packs of anodes plus the new Automatic Impressed Current System, currently being installed on vessels in many parts of the world.

Also featured is the Servi range of hydraulic steering gear with working units of hand and power assisted gears suitable for fishing vessels.

White Fish Authority. This stand's theme will be developing skills for tomorrow's industry. It will illustrate the WFA's wide range of activities including: development of improved fishing gear and techniques; training fishermen and shore personnel; exploitation of under-utilised resources; fish farming; Kingfisher charts; performance trials; operations research; grant and loan; publicity and market development. The WFA's consultancy services will also be featured. WFA staff will be on hand and orders will also be taken for Kingfisher charts.

Transatlantic Fishing Systems Ltd. Suppliers of longlines and European concessionaires of the North American Luhr Jensen range of products.

On show will be constituent parts of the equipment —

woods, line, dhans, gurus, GRP smoothe, bins, bins, hydraulic haulers and rope drums.

The firm also manufactures gurdies, rollers, strippers and weights for the mackerel season.

Of special interest to

everyone who likes good food is an electrically operated fish and meat smoker. This is the first inexpensive smoker to provide truly professional results and has already proven a great success with the fishing community.

Lucas Marine Ltd. The full capability of Lucas Marine engine-mounted electric and accessories will be exhibited on this stand.

Francis Searchlights will

be featuring its range of specialist searchlights including the newly-introduced high voltage compact searchlight, the M38/M38, and new marine floodlight.

Also displayed on the stand will be a full list of the newly-appointed Lucas Marine specialist agents throughout the UK and Ireland which will be providing a sales service and distribution network for the firm's products.

Ashton Containers will feature the company's Viking solid board fish boxes. The company is also exhibiting ACLaim, its wax-saturated corrugated fibreboard packaging.

Viking waterproof and non-absorbent fish boxes are made from polythene-coated fibreboard. Fish boxes are available in sizes varying from 1-tonne to three-tonne and over.

Ashton's new ACLaim material is extra strong and weather resistant, making it particularly suitable for shellfish and heavy fish. An advantage of ACLaim is that it combines high stacking strength with the lightness and economy of corrugated board.

The firm claims a nationwide network of agents which can supply fast deliveries of Viking boxes, printed or unprinted, to merchants and processing plants in Aberdeen and other UK fishing ports.

tinguishers, sprinklers, fire hose and fittings will also be shown.

This company is now Scottish agent for the Swedish manufactured fish processing machinery from Areco.

Orkney Boat Builders

Association members will

again be offering a variety of

products and services.

James Duncan, Burray: photographs and models of the traditional wooden and GRP fishing vessels at the yard constructs. With a new slipway facility planned, the yard will soon be able to offer repair facilities for vessels up to around 50ft.

J. W. MacKay, Stromness. This yard will display a 12ft. clinker-built mahogany dinghy of a standard-type currently produced by the company. Also on display will be photographs and literature showing the traditional clinker-built fishing vessels in which the yard specialises.

Recently delivered by

Halmatic was Ardmore Rose

built to the order of John

Ridgeway for the west coast

of Scotland.

Marine & Industrial Transmissions (Stand B360) will display the MIT Marine diesel conversion system, the Twin Disc 514, and 510 marine gearboxes, a new type of controllable pitch propeller from Scandinavian Propellers, Scan Auto pilot, 1st Mate Steering System, and Cinkle Steering Systems.

The marine gears cover a range of horsepower from 50 hp-1,780 hp, and include V-drive, U-drive, and down-angle output configurations.

The steering gear covers a range of rudder torque from 40 KGM to 6000 KGM.

British Marine Equipment Council. An information stand will be used to promote the products and services of all members of the Fishing Division, including those not exhibiting.

Catalogue material from non-exhibiting companies will be on display and specific inquiries from BMEC staff concerning the stand will be forwarded to the companies concerned.

Turn to page 81

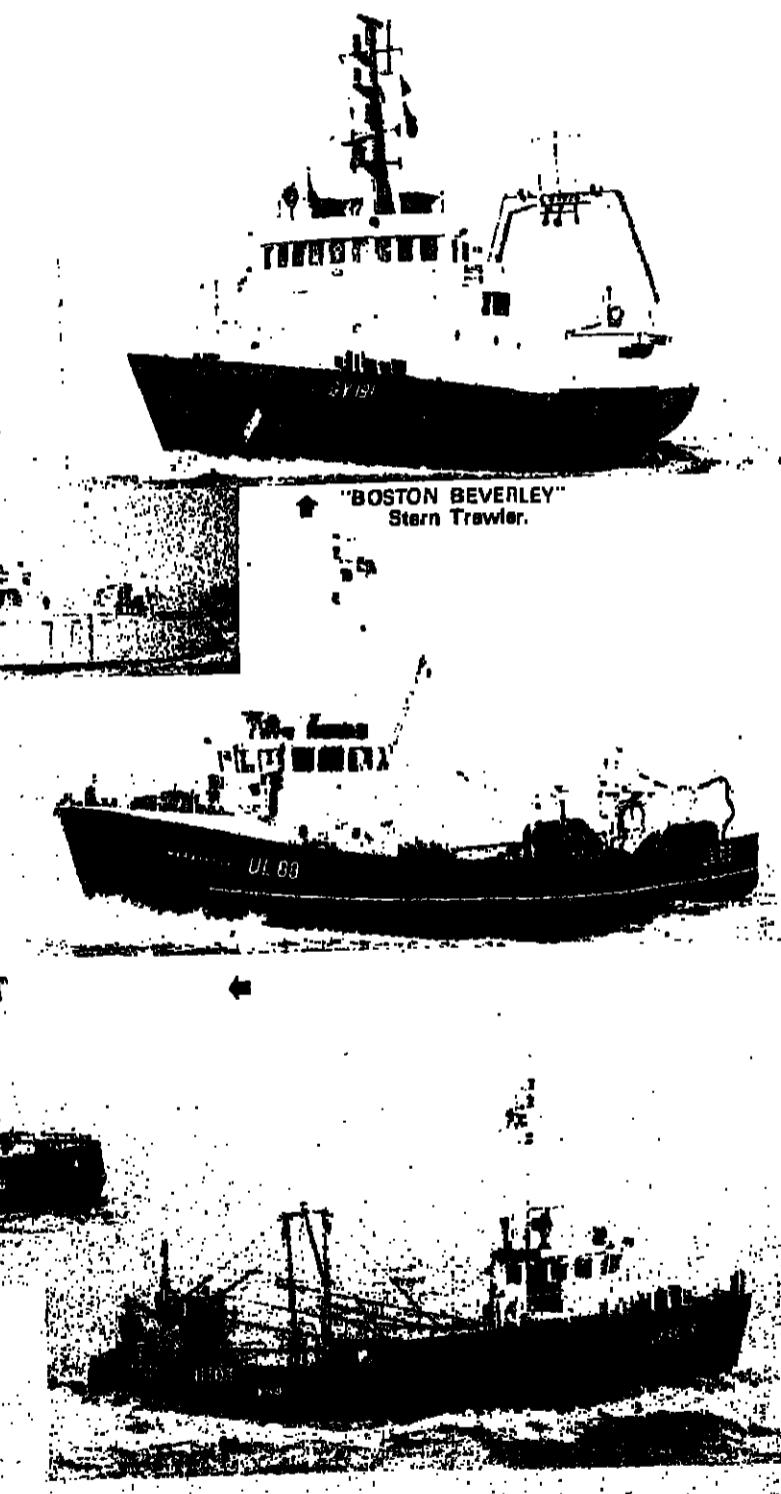


Ardmore Rose — the Skerries 29-class boat from Halmatic (Scotland).

DUNSTON

(Established 1858)

Present many successful fishing vessels



DUNSTON

THE RELIABLE DESIGNER AND BUILDER OF FISHING VESSELS

We provide the following comprehensive on-the-spot services:

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- DRAWING OFFICE
- HULL CONSTRUCTION
- COMPLETE FITTING-OUT

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RICHARD DUNSTON (HESSLE) LIMITED, HAVEN SHIPYARD,
HESSLE, NORTH HUMBERSIDE
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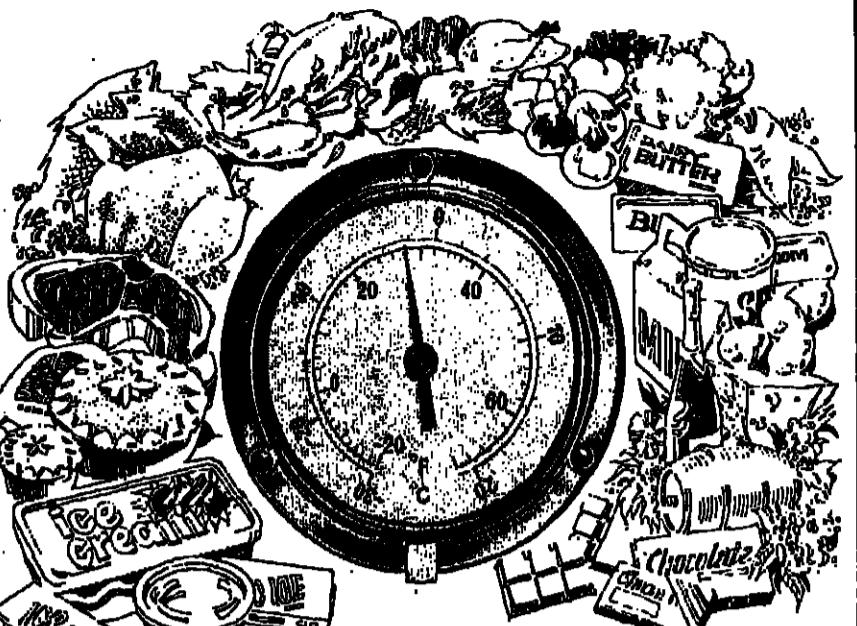
Breadcrumbing machine from Enterprise Sheet Metal. The unit can be used on scampi and fish fingers, etc.

Prestcold gets the temperature right

Storing and displaying different commodities at correct temperatures calls for experience and expertise in refrigeration. The kind, in fact, that Prestcold has been offering to every category of user for over 40 years... both as an equipment manufacturer and contractor.

In practical terms this means four factories which export around 50% of total production to 90+ tough overseas markets; nearly 4000 employees; and a national UK sales and service network which will advise on any cooling, chilling, freezing or air conditioning application.

From design and layout through to final commissioning and maintenance you are dealing with specialists dedicated to ensuring that you get the best return from your investment. Dial your correct temperature by telephoning your nearest Prestcold branch, or post coupon.



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The greatest name in refrigeration

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Head Office: MARINE PLACE, BUCKIE.
Phone Buckie 32045.

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For all insurance requirements of Fishing Vessels,
and their Crews.



**Scottish Boatowners
Mutual Insurance
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Smoke your own
*The
Breakthrough
of the
Century!*

The Mini-Kin can be used for the following products:

COLD SMOKING All white fish fillets, Fins, Blotters, Kippers, Salmon Fillets, Oysters, Bacon, etc.

HOT SMOKING Buckling, Mackerel, Trout, Sprats, Smokies, Sausages, Chickens, Turkey, etc, etc.

Simple to operate — full instructions provided

Now for the first time a miniature version of the automatic 'Tory' Smoking Kiln as used by all the major fish processing interests throughout the world is made available to the individual user.

DISTRIBUTORS IN ENGLAND FOR THE 'ARENCO' RANGE OF FISH PROCESSING EQUIPMENT

AFUS LIMITED, Dept. FNI, Manor Estate, Anlaby, Hull, E. Yorks, England

Telephone: 0482 82182

THERE'S NO 50-MILES LIMIT TO OUR
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Fish Haulage including Continental
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Daily Trunk Service from Peterhead & Aberdeen to Hull & Grimsby areas
Hull Contact Point: 0482 897397
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CATCH '78 PREVIEW

From page 79

box liners, fish film, vegetable parchment and all types of polythene products for packaging, been greatly improved, many design features of the well-proven JWG range have been retained to make the JWSC6M suitable for fishing boat applications, where durability coupled with operation flexibility is required.

Also featured will be a 25 kW generating set. Powered by a water-cooled HRW4MA engine, this unit also incorporates an air compressor, driven through an extension shaft and isolating clutch.

Marline trawl warps will also be exhibited. Examples of combined ropes that utilise the properties inherent in both fibre and steel will also form part of the display.

Catfish Ltd. A 24ft GRP catamaran-hulled fishing boat is the latest development from this firm. The prototype 'Sandskipper' as it is known, has just been completed and is designed to carry one tonne of fish and gear.

Able to negotiate surf up to 2 metres high, the Sandskipper is aimed at markets in developing countries. As a multi-purpose boat it is claimed to be 'well-suited to gill netting, trap fishing and seining, and can even tow a small trawl'.

The prototype version is fitted with a 6hp Petter engine plus sail. For heavier work it is envisaged that power layout consisting of a 12hp Petter twin could be fitted.

Top of this catamaran is the well known 36ft. Catfish.

Moba B. V. (UK) Ltd. Fish grading machinery with capacities for up to 24-pieces per hour.

Demonstrated on the stand will be the type FF70 machine capable of placing 3,500 pieces per hour into eight grades. This machine can be manually operated (2 persons) or fitted with an automatic loading conveyor.

R. A. Lister & Co. Ltd. The new Lister 250 bhp propulsion diesel engine coupled to a controllable pitch propeller will be the main exhibit.

The JWSC6M 250 bhp engine is displayed with a hundred VPS FR-H controllable pitch propeller unit.

Developed from the JW range, this engine is turbocharged and inter-cooled to continuously develop 250 bhp at 2,000 rpm. Although the power-to-weight ratio has

been greatly improved, many design features of the well-proven JWG range have been retained to make the JWSC6M suitable for fishing boat applications, where durability coupled with operation flexibility is required.

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Marline trawl warps will also be exhibited. Examples of combined ropes that utilise the properties inherent in both fibre and steel will also form part of the display.

Catfish Ltd. A 24ft GRP catamaran-hulled fishing boat is the latest development from this firm. The prototype 'Sandskipper' as it is known, has just been completed and is designed to carry one tonne of fish and gear.

Able to negotiate surf up to 2 metres high, the Sandskipper is aimed at markets in developing countries. As a multi-purpose boat it is claimed to be 'well-suited to gill netting, trap fishing and seining, and can even tow a small trawl'.

The prototype version is fitted with a 6hp Petter engine plus sail. For heavier work it is envisaged that power layout consisting of a 12hp Petter twin could be fitted.

Top of this catamaran is the well known 36ft. Catfish.

Moba B. V. (UK) Ltd. Fish grading machinery with capacities for up to 24-pieces per hour.

Demonstrated on the stand will be the type FF70 machine capable of placing 3,500 pieces per hour into eight grades. This machine can be manually operated (2 persons) or fitted with an automatic loading conveyor.

R. A. Lister & Co. Ltd. The new Lister 250 bhp propulsion diesel engine coupled to a controllable pitch propeller will be the main exhibit.

The JWSC6M 250 bhp engine is displayed with a hundred VPS FR-H controllable pitch propeller unit.

Developed from the JW range, this engine is turbocharged and inter-cooled to continuously develop 250 bhp at 2,000 rpm. Although the power-to-weight ratio has

been greatly improved, many design features of the well-proven JWG range have been retained to make the JWSC6M suitable for fishing boat applications, where durability coupled with operation flexibility is required.

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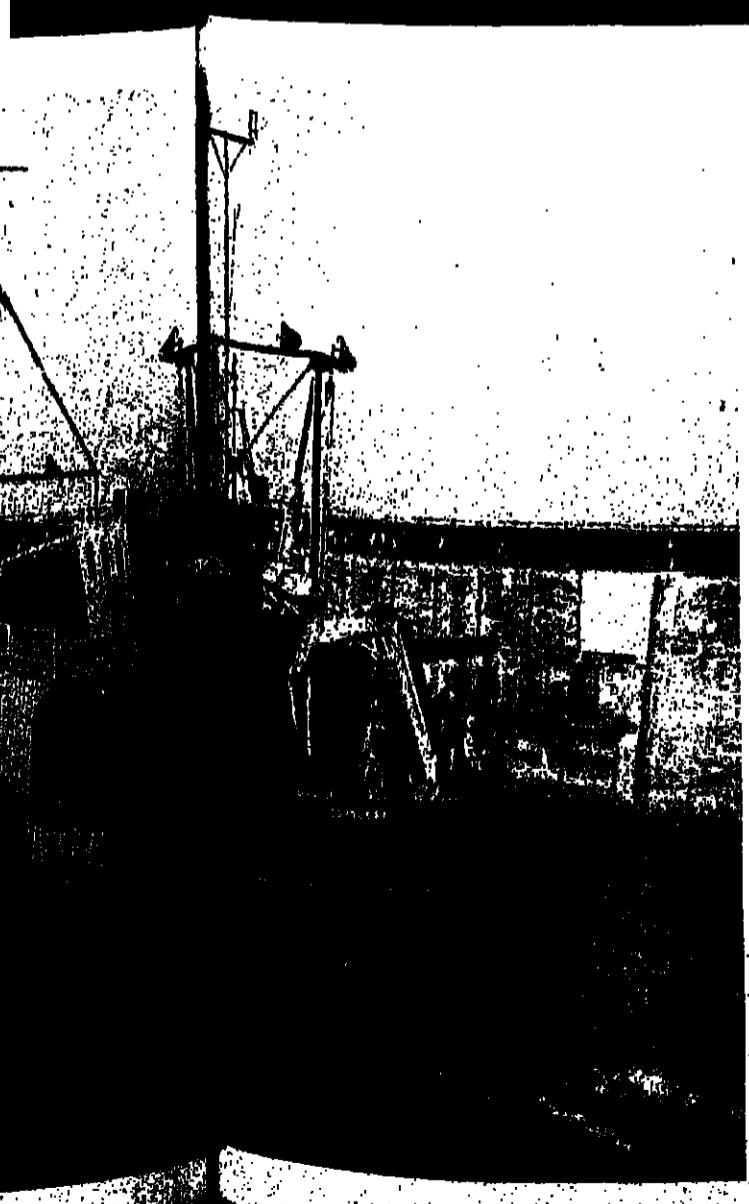
NEW BOATS '78



LEFT: The solid looking 74 ft. wooden-hulled trawler *Altaire* was delivered from the Sandhaven yard of J. and G. Forbes and Co. in February to a partnership of seven Shetlanders, headed by Skipper John Peter Duncan of Ollsberry. She is powered by a Kelvin 495 hp engine.

RIGHT: Herd and Mackenzie of Buckie built *St. Kilda*, an 80 ft. steel seiner-trawler for Skipper John Thomson of Lossiemouth who fishes from the Scottish west coast port of Lochinver. Her Fishing Hydraulics reels are of a new design to work varying lengths of rope off the west coast — and she is also first with Decca's ISIS engine alarm monitoring system.

BELOW LEFT: *Merewood* sets out from Aberdeen on a wintry day. The 75 ft. seiner-trawler was delivered by the Campbeltown Shipyard in February for Skipper John Reid and the Don Fishing Co. A German Deutz engine of 480 hp powers her and deck machinery includes Northern Tool and Gear winch, Fishing Hydraulics rope reels and Rapp power block.



LEFT: currently fishing from Peterhead is the 79 ft. wooden-hulled seiner-trawler *Conquest*. Built early this year by George Thomson and Sons of Buckie for Skipper Dennis Reid, she has fishroom cooling plant and is powered by a Caterpillar 665 hp engine. Her gear handling machinery includes Sutherland winch and Loesie Hydraulics rope reels and power block; fish-finding aids are by Wesmar, Elac and Kelvin Hughes.



BELOW: James Noble (Fraserburgh) completed *Devotion* for two Peterhead brothers, Alexander and James Strachan. The 74-footer, which has been trawling for shrimps from her home port during the last few weeks, is the first vessel in the UK fitted with a new sonar system from Furuno. Other equipment on the wooden boat includes Kelvin 600 hp engine, Northern Tool and Gear winch, plus Loesie Hydraulics power block.

July 1978

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CO-OPS are a way of increasing fishermen's real incomes. The movement claims that more and more fishermen are now becoming aware of the advantages of grouping together.

Three new societies have been set up during the past few months alone.

For a number of years the co-op movement was strongest on the Scottish east coast. Now there is terrific interest among west coast fishermen and those on the Scottish islands where co-ops have been set up on the Hebridean islands of Lewis, Uist and Barra.

There were 30 skipper-members at the time of its inauguration early this year and the Stornoway Fishermen's Co-operatives Ltd. will initially confine business to chandlery and fishing gear sales. It has plans for further developments.

A member of the board of directors told *Fishing News* that poor quayside prices and the high cost of fishing gear had prompted local fishermen to set up the group. He said: "The pierhead prices for fish at Stornoway are the lowest in the EEC. "We're looking for better

prices and chandlery at a discount".

The Uist association operates under the unpronounceable looking name of Co-Chomunn Iaigairean Uidhist Ltd. (Gaelic for Uist Fishermen's Co-operative Ltd).

Although this society will also deal with chandlery sales at present, it eventually plans to move into shellfish processing and marketing.

Fishing from the island of Barra has seen a revival in recent years and local fishermen have set up a co-op selling chandlery under the name of Barra and Vatersay Fishermen's Co-operative Ltd.

It also hopes to spread interests much wider to include such facilities as lobster storage ponds.

On the east coast the five-year-old Fishermen's Mutual Association (Buckie) Ltd. is making tremendous strides. Founded in 1973 by a group of Moray Firth fishermen

wanting to run their own

fishselling association and control their own shore-based interests, the Buckie

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CAMPBELTOWN'S LATEST '80'

FRASERBURGH'S new seiner-trawler *Fidelis II* has made a very promising start to her career.

At a time when many seine netters are having a rather lean time in the North Sea, she has landed some paying catches of more than 350 boxes at Peterhead. On one occasion she put ashore a really good haul of 434 boxes.

The boat is seine net fishing at present, but she may well turn to white fish pair trawling in partnership with a Peterhead vessel later on.

Built by the Campbeltown Shipyard for Skipper Stewart Buchan, *Fidelis II* comes from the very successful line of cruiser-sterndriven steel '80'-class which the Argyll firm has produced in recent years.

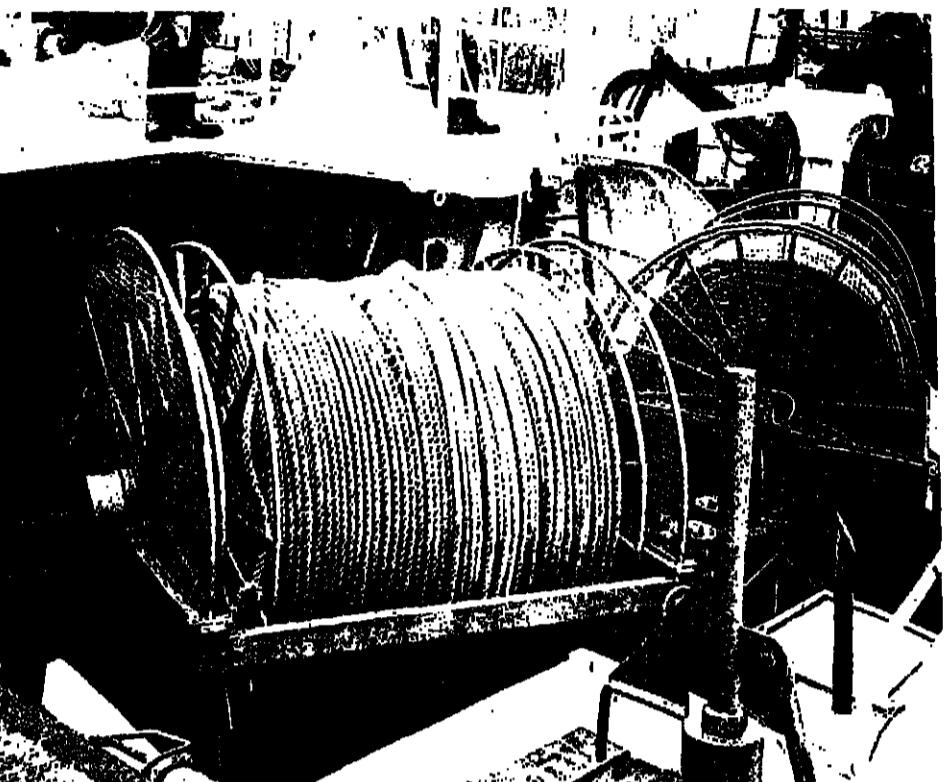
Fishroom

She is of round bilge hull form and has an overall length of 79ft. 11in; length between perpendiculars, 70ft. 4in; beam, 22ft.; moulded depth amidships, 11ft; and draft aft, 10ft.

The layout is traditional with the deckhouse aft. Below decks the vessel is subdivided from forward into forepeak, fishroom, engineroom and crew's cabin.

Wing tanks in the engineroom carry 3,200 gallons of fuel oil and there is a daily service fuel tank of 300 gallon capacity.

Some 400 gallons of fresh



water are carried below the net store, forward, and other tanks aboard *Fidelis II* hold 90 gallons of lube oil and 60 gallons of hydraulic oil.

The fishroom, with a capacity of 135 cu. m., is insulated with foam-faced aluminium sheet and is fitted with aluminium posts and redwood pond boards.

A Northern Tool and Gear 'Mastra' hydraulic combination seine and trawl winch is located below the whaleback, the trawl drums lying in a fore-aft position at the fore side of the seine barrels.

The two-drum set of seine rope storage reels, and the power block, come from the Lossie Hydraulics Co.

Controls for the reels are arranged in the wheelhouse and the power block is hung on a single-reach derrick aft of the deckhouse. Two fish washing troughs from Simpson of Thurso are fitted beneath the deck shelter.

For use when trawling, the towing blocks are hung from stout steel arms projecting from the after corners of the deckhouse. Another gallows post is fitted at the starboard bow.

Monitor

The deckshelter, foremast and the landing derrick are of aluminium and the A-frame seine derricks are fitted on the deckhouse top.

Fidelis II is powered by a Mirrlees Blackstone-type ESL6MGR air-starting engine which develops 635 bhp at 750 rpm. It drives a Bruntons four-blade, 70in. diameter, manganese bronze, fixed-pitch propeller through a Lister Blackstone gearbox of 2.6:1 reduction ratio. A Gent fault monitor was supplied with the engine.

A 24V. Transmotor generator, a 3in. Densol bilge and general service pump and the steering gear pump are belt-driven from the after end of the main engine, whilst another 24V. Transmotor generator and the hydraulic bracing pump for the rope winches were

reels are driven by belts from the fore end.

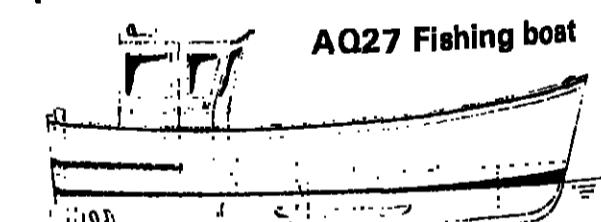
The rope reel braking pump can be used to power the deck units for fishing gear retrieval.

Pelican Engineering (Sales) Ltd. supplied the auxiliary generating set which is based on a Gardner 126 hp

Turn to page 88

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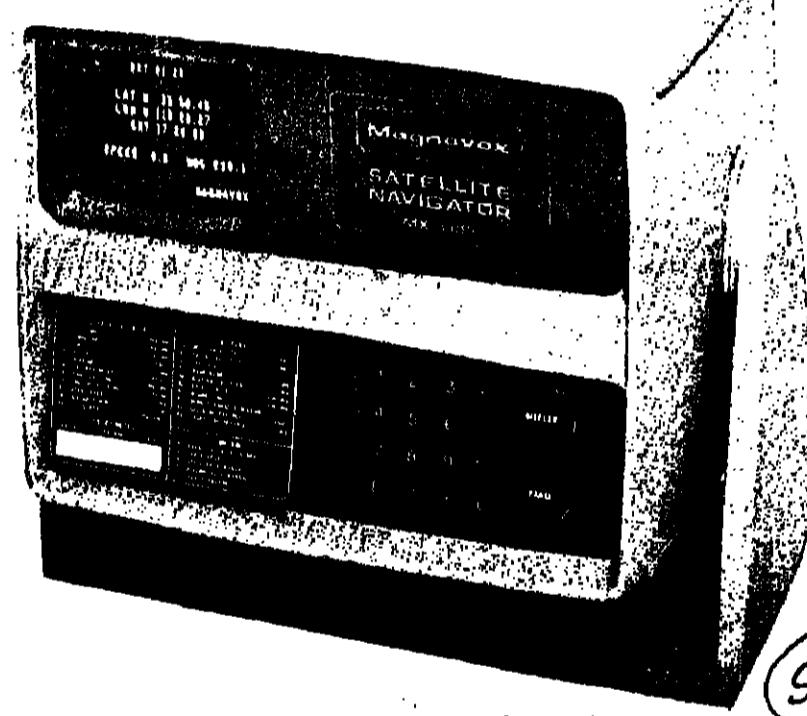


Above: *Fidelis II* has made a promising start to her career seine net fishing from Peterhead. She may switch to pair trawling.

Left: her Lossie Hydraulics rope storage reels. The Mastra seine and trawl winch, hidden by the roofs, is fitted below the whaleback.

Below: another Lossie product aboard *Fidelis II* is her power block. It is hung on a single-reach derrick aft of the deckhouse.

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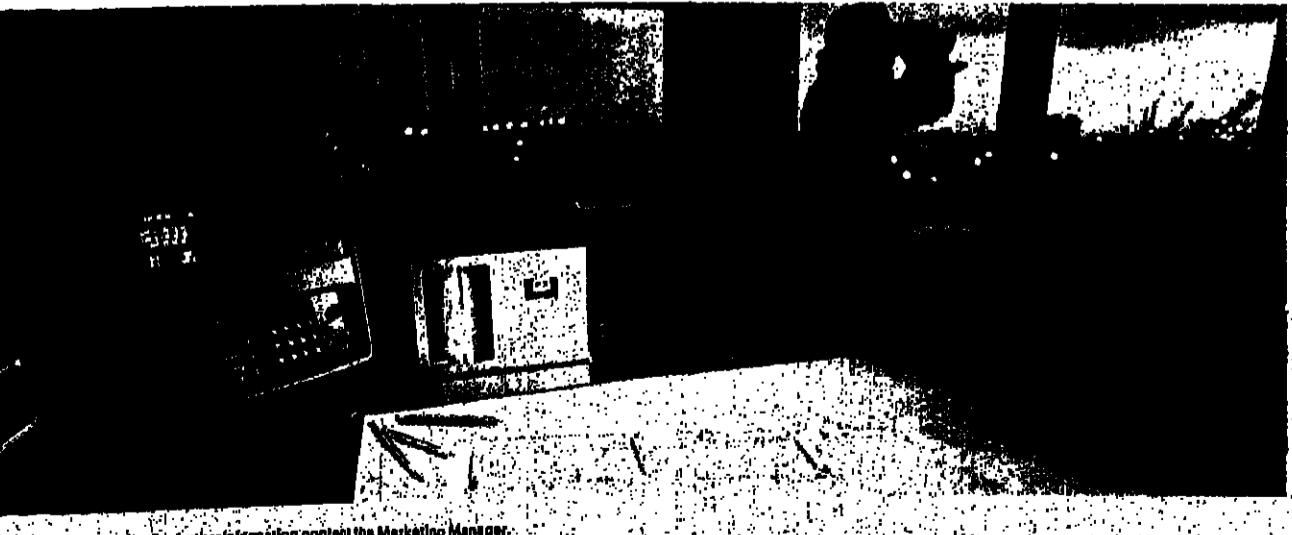
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LATEST '80'

From Page 86.

engine running at 1,600 rpm. A Twin Disc clutch transmits power from the fore end of this engine to the Dowsy variable delivery hydraulic pump for the winch, also the Vickers double hydraulic pump for the rope reels and power block.

A 24V Transmotor generator is driven off the after end of the Gardner engine, while a belt drive is provided at the free end of the generator for a 3in. Desmi bilge and general service pump and a Wilson air compressor. A small Petter auxiliary engine is fitted to drive another air compressor.

Watson and Dundas Ltd. supplied the main switchboard and an unusual feature of the vessel is that she has a 24V electrical system. Other fittings in the engine room aboard *Fidelis II* include a Pyro oil-fired boiler to supply central heating and domestic hot water.

Electronic instruments in the wheelhouse are mainly from Marconi and include Fishigraph K type 681A bottom expansion recording echo sounder, Fishoscope K CRT display unit, Wesmar SS220 sonar, Koden MD-506 II radar with variable range marker, Minicell II intercom system, Warden III watchkeeping receiver, 'Sailor' TI28 R105 radio telephone and 'Sailor' RT144 VHF radio telephone.

Decca equipment comprises 450 Automatic Pilot, 360T Track Plotter, and Mk.12 and Mk.21 Navigators

with dual station plotter receiver switch.

Tenford 115 steering gear is coupled to the boat's autopilot, and other fittings in the wheelhouse include Bostrom Viking 300K helmsman's chair, Morse engine and winch controls, Kent Clearview window screen, Alan Haigh lighting switchboard, plus alarm detection system and bilge level warning system.

The galley, arranged in the deckhouse, is fitted with a Kempfse oil-fired cooker and an Electrolux fridge.

All the external and internal steelwork aboard the vessel is treated with Metalife corrosion systems and paints.

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Koden

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II

radar

with

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marker,

Minicell

II

intercom

system,

Warden

III

watchkeeping

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R105

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telephone and

'Sailor'

RT144

VHF

radio

telephone.

Decca equipment comprises 450 Automatic Pilot, 360T Track Plotter, and Mk.12 and Mk.21 Navigators



Fidelis II, seen (above) on a foggy day in Peterhead, has landed several very good catches under Skipper Stewart Buchan. She has topped 400 boxes.

Most of the wheelhouse equipment aboard *Fidelis II*, including echo sounders and Wesmar sonar, have been supplied by Marconi.

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International Fisheries Exhibition of 1883

HARRY BARRETT looks back to when fishing shows really put on the style*

NO DRAUGHTY, flapping tents. No warm beer in plastic cups and not a portable loo in sight. For this was not the here today and gone five days later modern fishing show that we have come to expect.

What we are talking about is the biggest and most splendid fishing show on earth — The International Fisheries Exhibition of 1883. The setting was the exotic Kensington Gardens in London and over one million visitors came during the four-week run.

As befitting such a grand occasion, Her Majesty Queen Victoria was to perform the opening ceremony "but an unfortunate accident deprived her of the opportunity". However, the show did not have to go far down the Royal scale for a stand-in — the Prince of Wales took over.

There is no doubt that the exhibition achieved much more than just the hard commercial sale of fishing gear. Its aim was to get the public interested in fish and fishing.

Two fish markets specially constructed on the site were doing big business promoting visitors with the opportunity to buy their supper. A typical fisherman's cottage was also conveyed to the public something of the life-style of the men who catch fish.

The salmon fishers of Dumfries wore white jerseys striped and starred with blue, with a red salmon embossed on their bosoms. A deputation of fisher-women and girls from Scotland, France, Belgium and Holland, in their picturesque native costumes, lent further animation to the scene.

The exhibition was also a financial success, showing a profit of £15,243. At the direction of the Prince of Wales, £10,000 was invested from the surplus for

This article is based on a book

The Fisheries of the World,

published in 1883 by Cassell & Co. Ltd.



This section of the 1883 exhibition was named The United States Court.

Turn to page 91

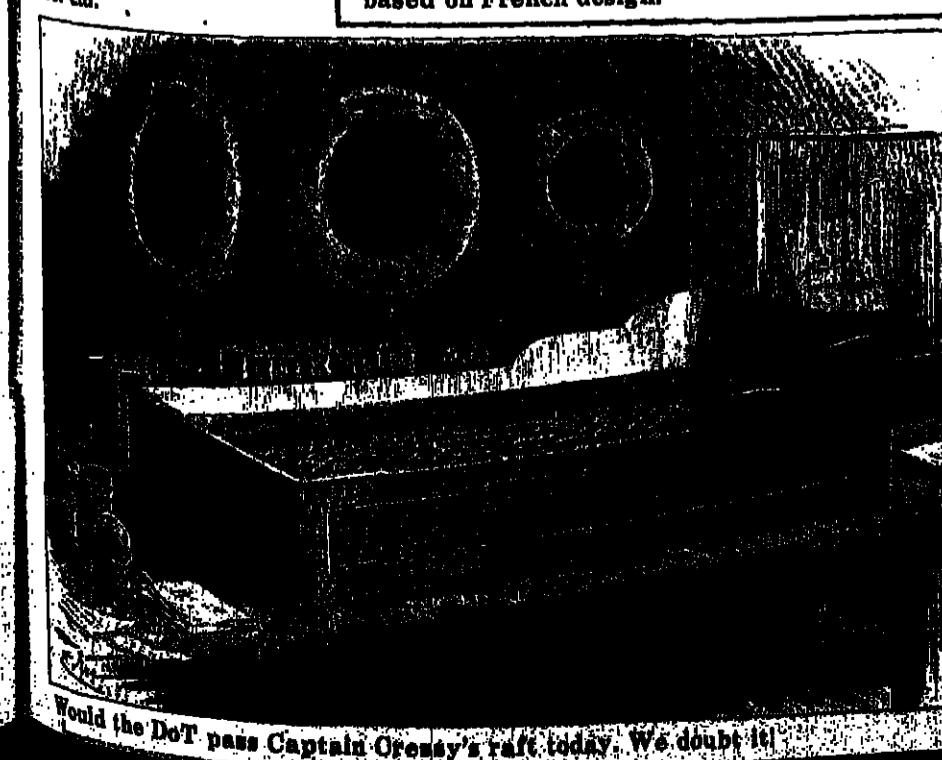
Medal pass

A MEMENTO of the 1883 exhibition turned up recently at the well known refrigeration firm of J. & E. Hall in Dartford, Kent.

This was a medal struck for the occasion, which was provided as an exhibitor's free pass.

Although refrigeration was hardly in vogue at the time, J. & E. Hall told *Fishing News* that they were the first people to look at the marine application for refrigeration.

Dim recollections of what could have been on display pointed to an early form of compressor, based on French design.



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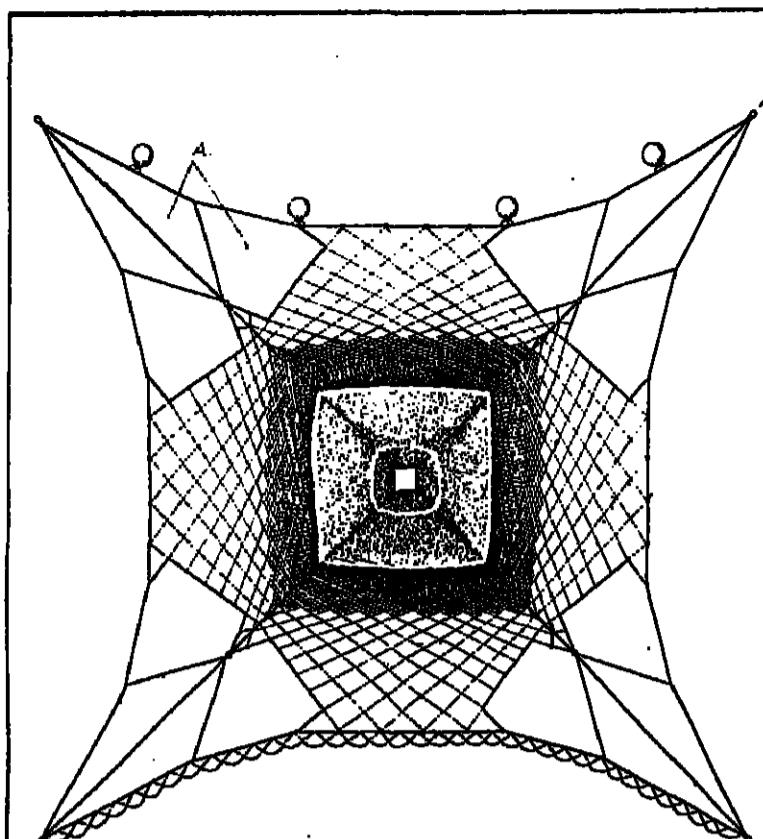
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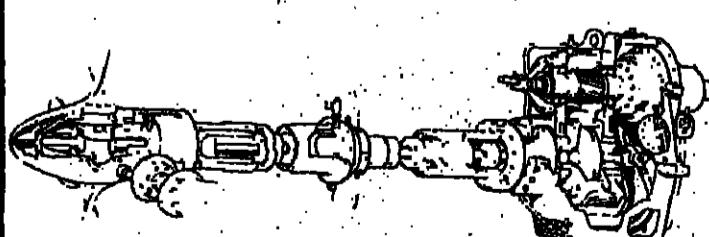
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Exhibition of 1883

From page 89

was designated its own Court.

The atrocious casualty rate among fisherman meant that safety equipment, however rudimentary, was a big feature at the exhibition.

Automatic release systems for lifeboats when lowered into the sea were being developed by several manufacturers, but it was a system from the firm of Sample and Ward of Blyth, Northumberland, which was said to "bear the palm off from all competitors." Using a system of cranks and rods, the hooks which lead the boat to the davit became disengaged immediately it hit the water.

The "Whitby Buoy" also looked to be a great source of assistance to fisherman in distress. This was listed as containing flags, whistles and a flask for stimulants — plus being able to support four persons in the water.

Navigation buoys on display were little short of floating gasometers. The giant Pintach's Patent Gas buoy was fitted with a huge lamp, which after one charge of gas was claimed to be visible up to six miles for three months.

For sheer practicality, the patent raft invented by Capt. Cressey R. N. and featured on the stand of Steedman and McAllister of Glasgow must have taken some beating.

Basically a bed cot, this piece of ships' furniture doubled up as a liferaft claimed to be capable of keeping several people afloat in the water.

Frame

It was based on a rectangular open wooden frame and the bed-come-raft had corrugated wire strung across it, except at the centre where an opening was left. The opening was crossed with straps which could easily and quickly be loosened. Flotation was provided with a cork lining on the frame.

Entry on to the raft was through the middle opening which necessitated pushing the raft down on one side, allowing it to cant up and fall over the head or shoulders. The beam trawl was sweeping all before it in the North Sea. At the fishing conferences, held in conjunction with the exhibition, some scientists were beginning to worry about the efficiency of this method and its effect on the stocks (shades of today).

Gear designers began to get the message and the



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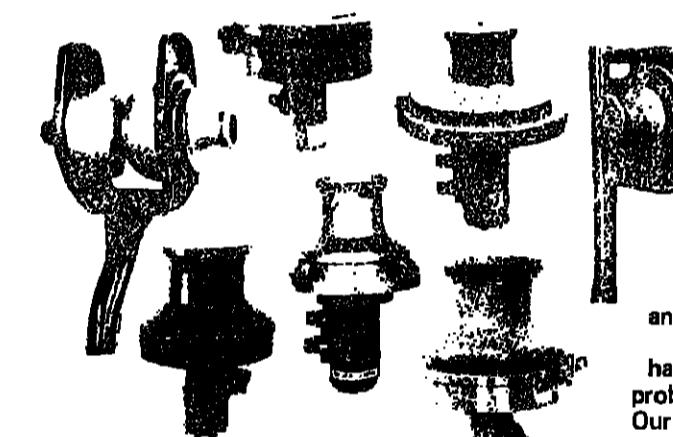
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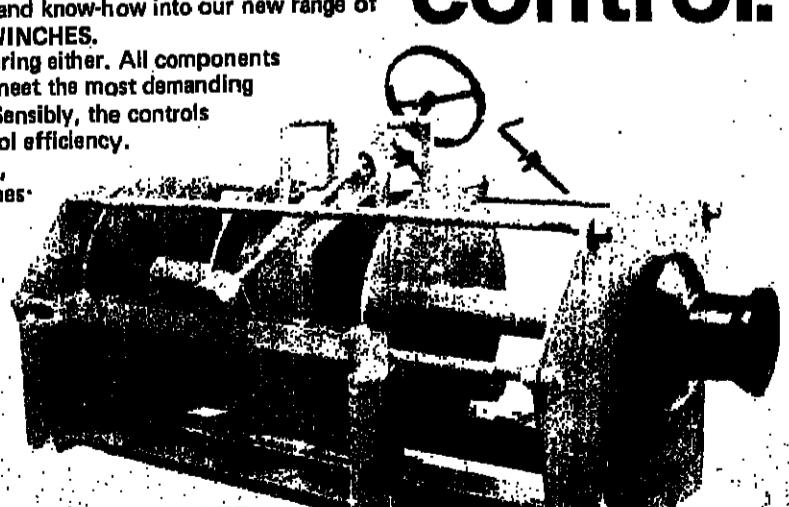
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PROTECTION—WHY NOT A 'BLUE LAMP' NAVY?

A NEW 'Blue Lamp' naval protection service on the Norwegian pattern could relieve the Royal Navy of its fisheries and offshore protection task.

Professor Watt, while in no way denigrating the effort put into protection duties by RN personnel, strongly criticised the equipment and facilities with which it is required to carry out this task.

This has been highlighted since the 1976 proclamation of the 200-mile UK limits which added over 250,000 square miles of sea to the waters previously patrolled under the 1964 Continental Shelf Protection Act.

Closer supervision of about 60,000 square miles inside the 50-mile coastal zone, from which it is proposed that all foreign fishing boats are to be excluded, will impose a still further burden on the existing protection force.

For this task, the Flag Officer, Scotland, has a 'Scottish Navy' of five unarmed ships run by the Sea Fisheries

squadron comprising only 16 armed ships run by the Department of Agriculture and Fisheries for Scotland, minesweepers (with or and Fisheries for Scotland, without Prince Charles), two and the four Nimrod aircraft, 'Bird' class patrol boats, five based on Kinloss and of the newer 'Island' class Maugam — one for each fishing zone.

Professor Watt emphasised

that, at a time when Britain's Navy has been allowed to run down and when officers and men of all the armed forces are leaving the services, the task of protecting our maritime property and resources has grown vastly in both area and difficulty in recent years.

As a result, the Navy's resources which can be devoted to this task are desperately overstretched and quite inadequate for the job.

Contemplating what it is now required to do and the instruments with which it is asked to do it, he said, 'it is impossible not to feel both admiration and despair — admiration for the effort being undertaken as well as for the persistence with which that effort is defended; and despair as to the chances of any really adequate action being taken.'

RN forces, Professor Watt suggested, should be relieved of fisheries and offshore protection duties and returned to their traditional role of defending seaborne trade and generally policing the coasts and oceans.

A new force, the 'Blue Lamp Navy', should be created specifically for the job of fisheries protection and keeping watch on offshore structures.

Taking into account the extension of our fishing limits and the enormous investment in the offshore oil industry, he accused the Government of assuming massive new commitments without making remotely adequate allocations of funds to cope with them.

Relieving the Ministry of Defence and the RN of protection duties need not, in his opinion, leave Britain's fisheries and fishing fleets without the protection they need and deserve, says Professor Watt.

There is, he pointed out, no Admiralty monopoly of sea-going craft in the service of the Crown and protection could be afforded — and on a larger scale so far as son coverage is concerned — by utilising to the full the larger number of vessels already owned and operated by other Ministries and their various departments concerned in fisheries and offshore work.

He gave details of six ships run by the Sea Fisheries Inspectorate of the Scottish Office's Department of Agriculture and Fisheries; another 20 or more research vessels of various sizes in the control of the National Maritime Institute, the National Environmental Research Council of the Department of Education and Science, and the Ministry of Agriculture, Fisheries and Food; and there are also vessels operated by HM Coastguard as well as the revenue cutters of the Customs and Excise Warder.

Many, if not all, of these craft would be suitable for fisheries protection duties at appropriate distances from the coast.

From them the nucleus of a Blue Lamp Navy could be formed. The adoption of such a force need not meet high RN standards of construction, manning, armament, highly sophisticated electronics and so on, but would thus be considerably more economical to build, man and maintain.

This is not to say that Blue Lamp seamanship standards would be lower; in fact crews could be largely recruited, according to Professor Watt, from fishermen unemployed through the decline of Britain's deepsea fishing fleets. As a civilian service, it would be unarmed but uniformed, acting mainly in an observe and report role, but with authority to arrest if need be and the ability to call in armed Naval help in the event of violent resistance by an offender.

Funding of a Blue Lamp Navy should not, the professor considers, be covered in the Defence Vote as that is of the RN. Instead, it would have its own budget contributed to by the relevant Ministries responsible for legislation and administration for Britain's marine industries.

TRAULER owners at Grimsby must really be wondering when their current run of misfortunes will end. Two distant water ships were laid-up after reasonable trips last week and half the middle water fleet ended up well in the red from tiny catches. Ships which did have heavy catches saw much of it go unsold or to the salters.

To cap it all, the Belgian trawler *Belgian Lady* — landing Icelandic wet fish at the port for the second time this year through A. E. Richardson — managed only a £2,198 grossing from 992 kits (ed plus a little haddock). She had topped £60,000 from her last visit albeit with more kites.

This post Spring Holiday hangover fortunately was nowhere near as apparent among the North Sea seiners and pair teams and quayside prices generally, especially for codstuffs, did hold almost to the levels of previous weeks. Nevertheless, there were disappointments in this section as well.

Disaster

Sister-ship *Ross Kashim* (Sk. Pat Philpion) turned in a similar 15-day Westerly/North Seas effort with a landing of 1,265 kits, but it ended up in disaster with 310 kits unsold, 232 to the salters and a wretched grossing of £14,685.

The John R. (Fish Sailors) Ltd. agency had the rare honour of managing both the top seiner and the top pair team.

Top tripper

Skipper Bob McQueen in *Ella Grethe* was in a class of his own with a superb 16-day cod trip worth £11,748 from 398 kits — £3,000 better than his nearest rival. Skippers Bob Collins and David Buley in *Ann Charlotte* and *Sonia Jane* completed the double with combined figures of £26,200 from 872 kits of cod.

Belgian Warned

ONLY a few days after the French trawler *Cassel* was brought into Lowestoft and her skipper ordered to pay nearly £1,500 in fines and costs for two net offences a Belgian trawler, *Triton*, has been escorted into the port.

Triton, commanded by Lt. Cdr. J. F. Martin, sent a boarding party to the 70-ft. Belgian trawler when she was observed with a number of other fishing craft about 18-miles off Orford.

"She was given a formal warning about the mesh size of one of her nets and was allowed to sail," said Lt. Cdr. Geoff Thorpe, district inspector of fisheries.

HMS *Shaunton*, commanded by Lt. Cdr. J. F. Martin, sent a boarding party to the 70-ft. Belgian trawler when she was observed with a number of other fishing craft about 18-miles off Orford.

THE BRITISH Transport Docks Board is to build a new road exit from Lowestoft fish market into Hamilton Road to ease mounting traffic congestion.

At present all road traffic from the fish market and outer docks uses one exit, only a short distance from the harbour bridge and town centre. The new road exit will cost £63,000 and Waveney district council says it will contribute towards the cost provided "other interested parties" do the same.



Skipper Bob McQueen had an outstanding trip of 398 kits worth £11,748 with *Ella Grethe*.



'SWIFTSURE' MAKES SURE

FISHERMEN in Plymouth had a grim reminder last Friday of where the port's top priorities lie. Their craft, together with all other vessels in the Sound, were ordered by the Royal Navy to stay exactly where they were...

A Navy spokesman said the restraints were made under the Port of Plymouth Act because the harbourmaster considered visibility to be poor, and that it would be prudent to close the port. "Safety is paramount where nuclear-powered subs are concerned," he added.

There were numerous complaints about the action.

Cold store

FISHERMEN at Killala, County Mayo, want cold storage facilities in the port from which 22 boats now operate.

They have asked Bord Iascaigh Mhara to look into the matter and are contacting the local authority about having a light fitted on the pier. One man died after a fall on the quay wall there.

Holiday hangover hits Grimsby



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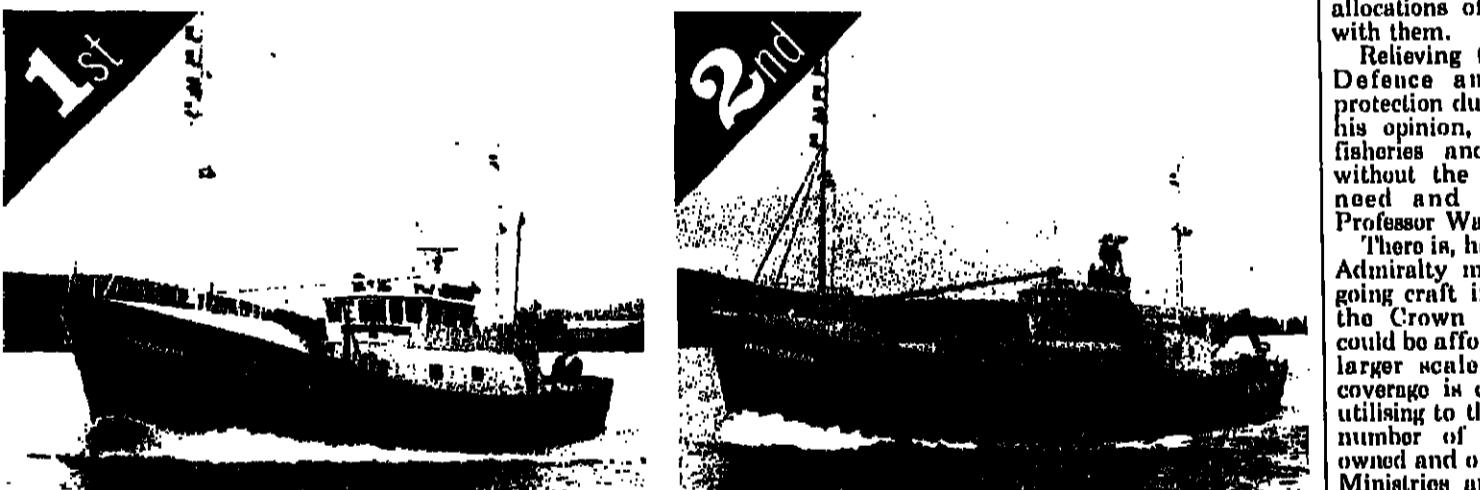
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▲ Runner-up in the annual league table for gross earnings, Mary Croan, a Campbeltown 75 built for Skipper Tommy Sutherland of Hopeman.

◀ In the reckoning again, the 1976 top seiner Kestrel, a Campbeltown 80 built for Skipper Ian Sutherland of Hopeman.

Together, these three vessels grossed more than £1 million during the year.

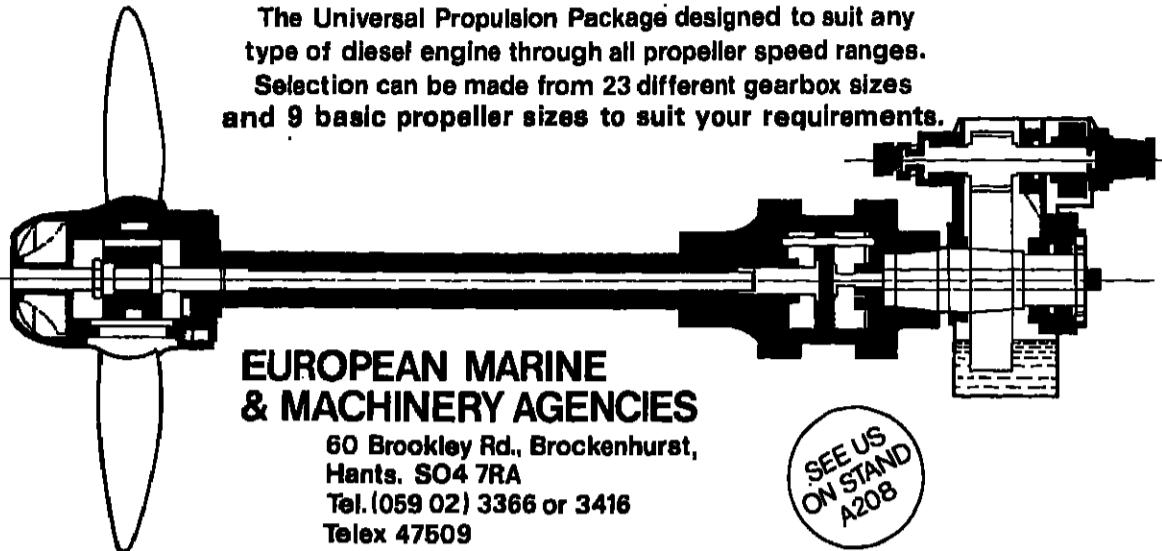
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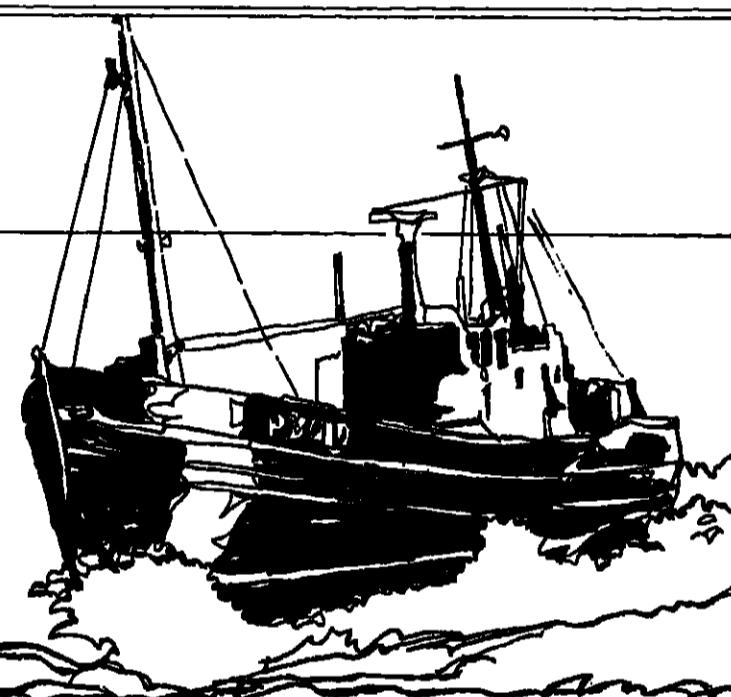
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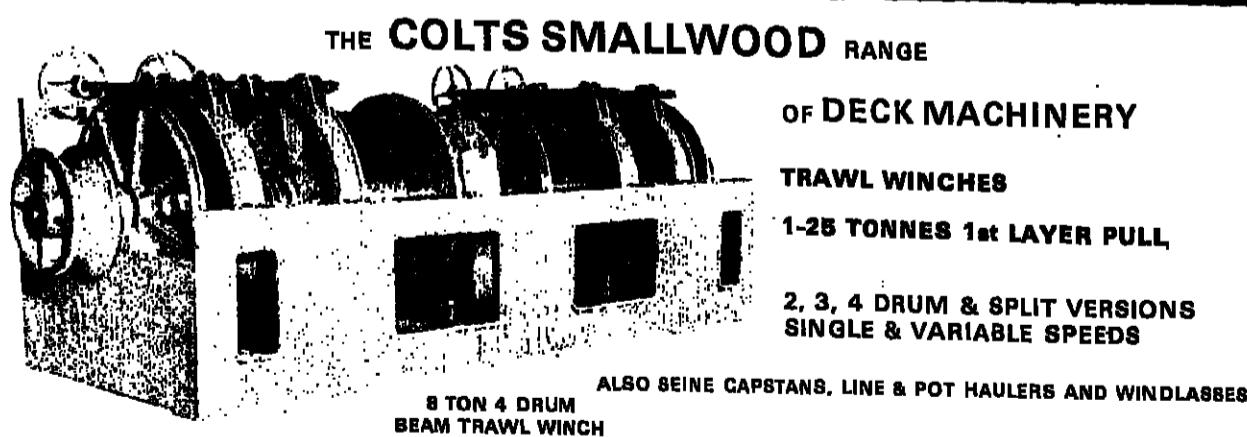
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Fishermen count the cost of lost grounds

Oil and Gas developments in the North Sea could cut fishermen's earnings by up to £1m. in the ten-year period ending 1986. A report by Aberdeen University, commissioned by the Scottish Fishermen's Federation and the British Fishing Federation, shows that encroachment by the oil industry on fishing grounds has become a problem which will continue to increase.

The report estimated that loss of access to fishing grounds could be costing the fishing industry up to £480,000 a year and may rise to £600,000 by 1986.

A big worry for fishermen has been getting the Government to recognise that there is a problem. The publication of this report is seen as convincing evidence to support the many fears that have been expressed about the spread of gas and oil work into areas of fishing.

Government Ministers are now considering the report and are expected to call a meeting with both federations shortly.

While there had been some progress made in setting up the Fisheries and Offshore Oil Collective Group, "no headway had been made at all with the Government on compensation for loss of access," said BFF's vice-president, David Craig, when introducing the report last month.

The Government has claimed that, the law says what it is, there is no case for compensation for a loss of a public right.

On the other hand, said Mr. Craig, the oil industry takes the view that as they pay for the areas they operate in, there is no case on them to pay compensation.

Being the realists that we are, we have recognised that we must live with the oil industry. But having said this, we do not accept that we should be the principal sufferers of oil development," added Mr. Craig.

For the purposes of the report, three main areas of development were seen as causing loss of access: oil platforms; rigs and platforms; sub-sea components; and suspended wheelheads.

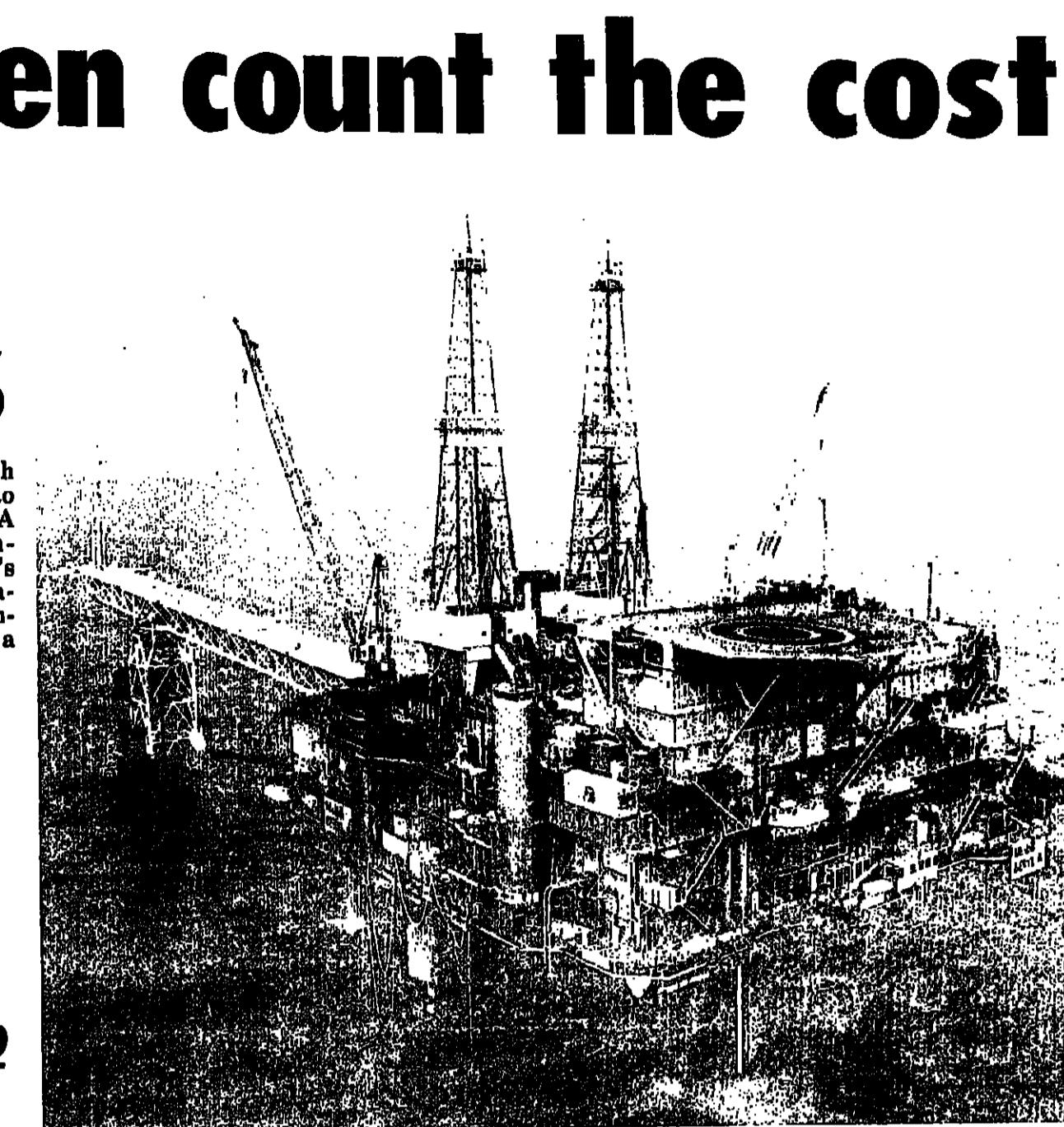
Aberdeen University regards this report as only the start.

...claim backed

Compensation should be paid for loss of access to fishing grounds through oil developments in the North Sea. This backing for fishermen came in the House of Commons' Committee's report on the fishing industry published last month.

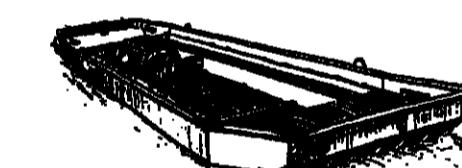
There is a case for compensation where quantifiable and demonstrable loss can be shown, noted the report.

The report also urged that safety zones around rigs should not be larger than necessary.

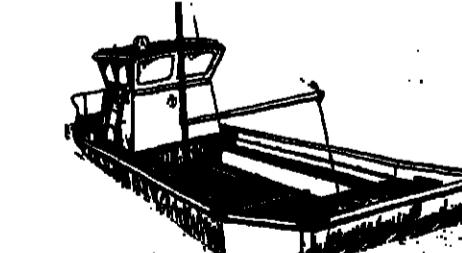


Big rigs need even bigger safety margins — and it doesn't end there. Pipelines run back to the shore. This is Mobil's Beryl A rig.

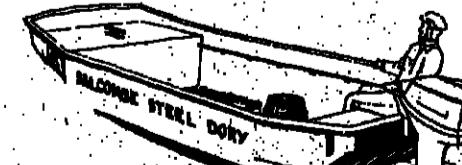
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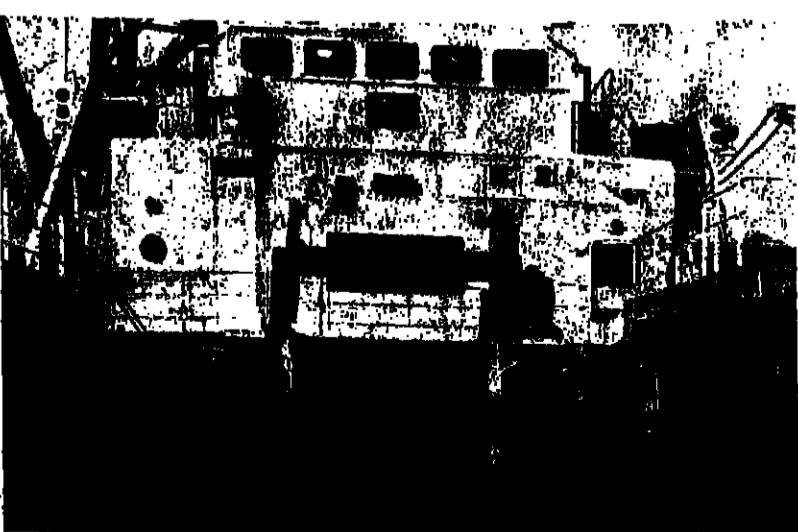
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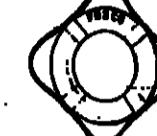
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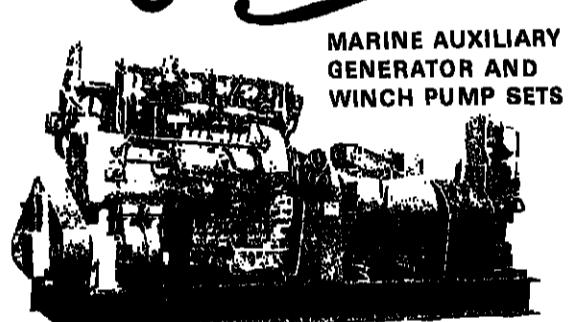
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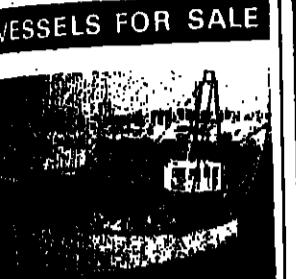
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